



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

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ALHAMBRA, CALIFORNIA 91803-1331
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ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

July 24, 2013

IN REPLY PLEASE
REFER TO FILE: **SM-1**

Mr. Noe Negrete
Director of Public Works
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, CA 90670

Attention Mr. Robert Garcia

Dear Mr. Negrete:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0910B

This letter is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television inspection of 126,704 feet or 29.7 percent of the City of Santa Fe Springs's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP Version 6.0.1) rating methodology. Included in the report are the following:

- Condition Assessment Report
- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Report Priority List and Quick Maintenance Rating Map (Enclosure 2)
- High Water Levels List and Map (Enclosure 2)
- Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List, Quick Structural Rating Map, and Lining and Point Repair Projects Map (Enclosure 3)

Mr. Noe Negrete
July 24, 2013
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance schedule. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of our ongoing Accumulative Capital Outlay Program.

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz, Sewer Maintenance Division, at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division

W.HK:sb
H:\SMHOME\GYoung\Memos.Letters\2411.doc

Enc.

bc: RP, MM, RS, FV, File (Project No. Y0TV0910B), SPINDLE

CONDITION ASSESSMENT REPORT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT

PROJECT NAME:	Y0TV0910B	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	05/05/2010	CONTACT NO:	((626) 300-3390
SUP. DISTRICT(s):	1	MAP PAGE(S):	2079, 2080,2081,2131
Report By:	Hanna Kebede	Report Date:	05/06/2013

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television (CCTV) inspection of 126,704 feet or 29.7 percent of the City of Santa Fe Springs's (City) sewer system as part of this condition assessment report.

To date, the District has completed the CCTV inspection of 340,247 feet or 79.7 percent of the City's sewer system. In addition to this report, one previous condition assessment report dated April 14, 2009 has been provided to your City for your information. A copy of this report can also be found at the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. The remaining 20.3 percent of the City's sewer system is part of a future CCTV inspection project to be performed in Fiscal Year 2013-2014. A report of the condition of these sewers shall be generated within 12 months from the completion of this project.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP Version 6.0.1) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project No. Y0TV0910B included sewer lines located in the unincorporated County of Los Angeles and the Cities of South El Monte, Cudahy, Pico Rivera and Santa Fe Springs. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects while a grade of 5 indicates that a pipe segment may require immediate attention. A detailed breakdown of the five possible defect grades is as follows:

Grade	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

MAINTENANCE REPORT

Our inspection revealed that approximately 92.1 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 7.9 percent of the inspected pipe segments within the City had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our enhanced cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

In addition, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	284	0.2	1
2: Minor to Moderate	116,483	91.9	476
3: Moderate	4,369	3.5	17
4: Significant	3,970	3.1	19
5: Most Significant	1,598	1.3	7
TOTAL	126,704	100.0	520

Lateral Notices

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines. It is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. For this project, two notices will be sent to property owners in your City notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

High Water Levels

Our inspection revealed that approximately 95.7 percent of the system televised has adequate capacity. Approximately 4.3 percent of the segments inspected exhibited deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which have indicated camera underwater or there were sags in the line. A sewer pipe can be considered at capacity when 50 percent of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage due to debris in the sewer lines, or a sag in the line. Therefore, additional review of the pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity, have been listed and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

A map showing the sewer lines with high water levels is provided in Enclosure 2.

Infiltration

Our inspection revealed that infiltration was not detected in any pipe segment in your City's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 95.5 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 4.5 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 25 in the Quick Structural Rating Report Priority List (Enclosure 3), which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 25 segments are included in Enclosure 4. A map showing the sewer lines which need lining and point repair is also provided in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	100,795	79.5	419
2: Minor to Moderate	10,612	8.4	40
3: Moderate	9,581	7.6	36
4: Significant	3,835	3.0	17
5: Most Significant	1,881	1.5	8
TOTAL	126,704	100.0	520

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the City of Santa Fe Springs according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2007-2008	Y0TV0708B	46,710	11.0	COMPLETED
2009-2010	Y0TV0910B	126,704	29.7	COMPLETED
2010-2011	Y0TV1011B	166,205	39.0	IN PROGRESS
2011-2012	Y0TV1314B	86,901	20.3	FUTURE
TOTAL		426,520	100.0	

ENCLOSURE 1:

Project Overview Map

OVERVIEW

CCTV PROJECT

Y0TV0910B

Santa Fe Springs



0 1,000 2,000 3,000 4,000
Feet

Legend

SMD Sanitary Sewers

SMD Manholes

Other

Manhole Type

Standard

DROP

Shallow

Trap

Siphon

Pump Stations

Maintained by Others

Trunk Lines:

Trunk Main Lines

Trunk Force Mains

Trunk Manholes

Non SMD Sewer

Non SMD Sewer

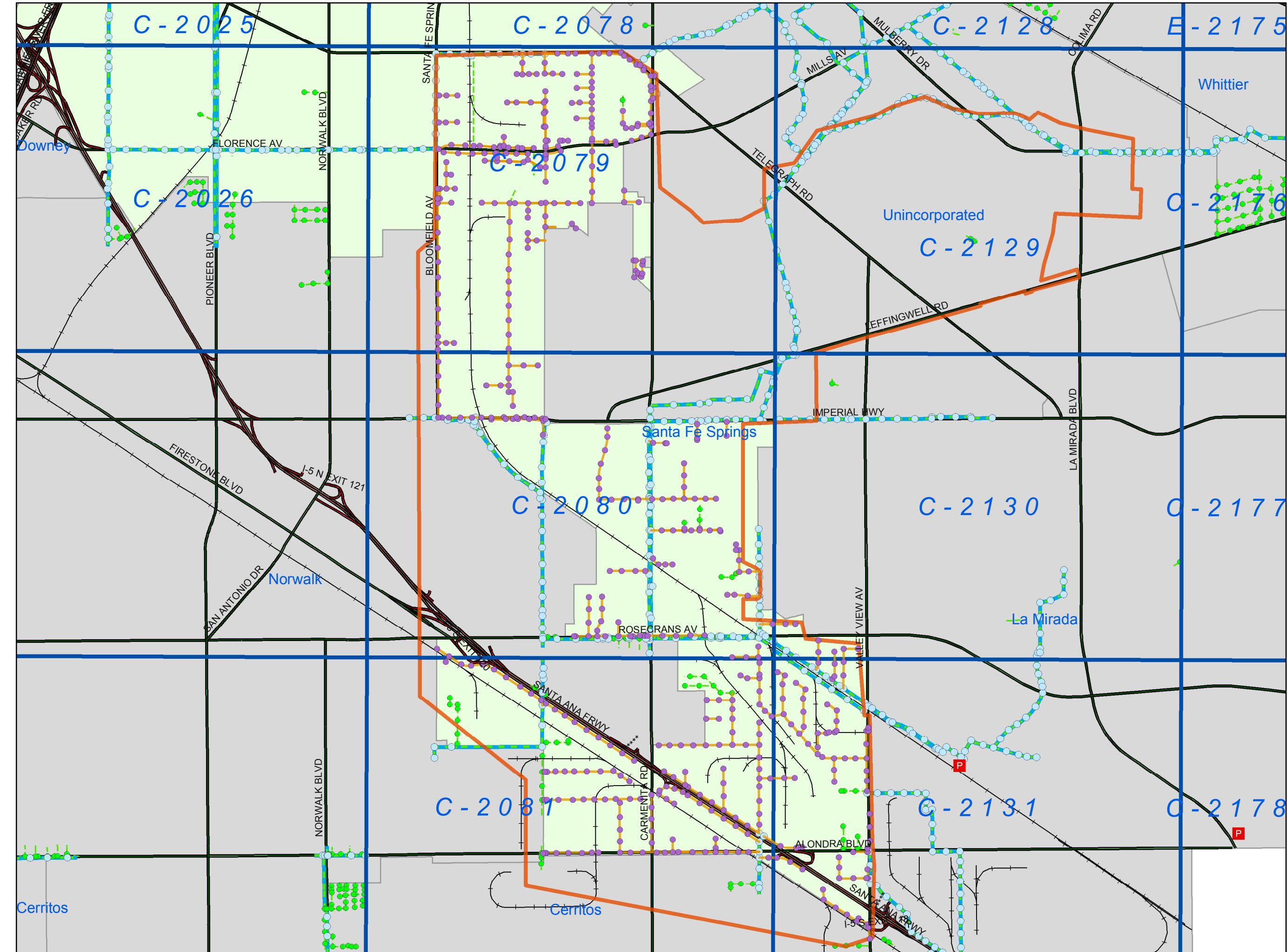
Non SMD Manholes

Y0TV0910B

SMD Operations Maps

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April 2013



ENCLOSURE 2:

- Quick Maintenance Rating Report Priority List
- Quick Maintenance Rating Map
- High Water Levels List and Map
- Sample Lateral Notice Letter

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF SANTA FE SPRINGS (Y0TV0910B)
as of 05/05/2010

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
1	5141	2080-0149	2080-0148	IMPERIAL HWY	Tap Break-In	Hydrojet	01/10/2013
2	5121	2079-0093	2079-0094	LOCKPORT PL	Deposits	Hydrojet	01/09/2013
3	5121	2079-0100	2079-0105	BLOOMFIELD AV	Water mark (60%)	No action needed.	N/A
4	5100	2081-0050	2081-0133	SHOEMAKER AV	Water mark (100%)	No action needed.	N/A
5	5100	2081-0051	2081-CITY	SHOEMAKER AV	Water mark (100%)	No action needed.	N/A
6	5100	2081-0091	2081-0092	MARQUARDT AV	Water Mark 85%	No action needed.	N/A
7	5100	2081-0093	2081-0092	MARQUARDT AVE	Water Mark 85%	No action needed.	N/A
8	4A21	2081-0049	2081-0050	SHOEMAKER AV	High water level (sag)	Hydrojet	10/05/2012
9	4200	2080-0155	2080-0154	SHOEMAKER AV	Camera underwater	Hydrojet	10/05/2012
10	4132	2079-0120	2079-0121	GREENSTONE AV	Roots Connection	Rodder	10/05/2012
11	4131	2079-0118	2079-0119	GREENSTONE AV	Roots Lateral	Lateral notice will be sent to property owner.	N/A
12	4131	2079-0158	2079-0159	MEYER RD	Roots Lateral	Lateral notice will be sent to property owner.	N/A
13	4131	2081-0038	2081-0040	ALONDRA BV	Camera underwater	Hydrojet	10/05/2012
14	4131	2081-0134	2081-0247	EASEMENT	High water level (sag)	Hydrojet	10/05/2012
15	4121	2080-0013	2080-0014	IMPERIAL HWY	Roots Connection	Rodder	01/10/2013
16	4121	2081-0113	2081-0118	SPRING AV	Camera underwater	Hydrojet	10/05/2012
17	4121	2131-0068	2131-0072	VALLEY VIEW AV	Alignment (left): 45 %	No action needed.	N/A
18	4121	2081-0129	2081-0130	EASEMENT	Alignment (down): 45 %	No action needed.	N/A
19	4121	2081-0008	2081-TRNK	SHOEMAKER AV	Alignment (left): 90%	No action needed.	N/A
20	4121	2080-0011	2080-0012	IMPERIAL HWY	Alignment (up): 30%	No action needed.	N/A
21	4121	2080-0154	2080-0155	SHOEMAKER AV	Camera Underwater	Hydroed Lt. grinds.	10/05/2012
22	4121	2080-0213	2080-TRNK	CAMBRIDGE ST	Alignment (left): 45 %	No action needed.	N/A
23	4100	2081-0118	2081-0119	EXCELSIOR DR	Water mark (60%)	No action needed.	N/A
24	4100	2081-0094	2081-0096	MARQUARDT AV	Water mark (60%)	No action needed.	N/A
25	4100	2081-0094A	2081-0094	MARQUARDT AVE	Water mark (60%)	No action needed.	N/A
26	4100	2081-0094	2081-0093	MARQUARDT AVE	Water mark (60%)	No action needed.	N/A

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF SANTA FE SPRINGS (Y0TV0910B)
as of 05/05/2010

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
27	3221	2081-0122	2081-0123	EXCELSIOR DR	Roots	Rodder	10/05/2012
28	3122	2079-0641	2079-0640	PATTERSON PL	Obstacles	Hydrojet	10/05/2012
29	3122	2131-0035	2131-0036	GANNET ST	Tap Break-In	Hydrojet	10/05/2012
30	3121	2079-0021	2079-0022	EASEMENT	Deposits	Hydrojet	01/09/2013
31	3121	2079-0123	2079-0124	GREENSTONE AV	Tap Break-In	Hydrojet	01/09/2013
32	3121	2080-0215	2080-0216	CAMBRIDGE ST	Roots Connection	Rodder	10/05/2012
33	3121	2080-0248	2080-0247	FIRESTONE BV	Tap Break-In	Hydrojet	10/05/2012
34	3121	2080-0254	2080-0279	EASEMENT	High water level (sag)	Hydrojet	10/05/2012
35	3121	2081-0037	2081-0036	ALONDRA BV	Deposits	Hydrojet	10/05/2012
36	3121	2081-0067	2081-0068	MOLETTE ST	High water level (sag)	Hydrojet	10/05/2012
37	3100	2081-0110	2081-PVT/	SPRING AV	Water Mark 45%	No action needed.	N/A
38	3100	2081-0112	2081-0113	SPRING AV	Water mark (50%)	No action needed.	N/A
39	3100	2081-0112	2081-0117	TALC ST	Water mark (50%)	No action needed.	N/A
40	3100	2081-0029	2081-0030	ALONDRA BV	Water mark (40%)	No action needed.	N/A
41	3100	2081-0090	2081-0091	MARQUARDT AV	Water mark (40%)	No action needed.	N/A
42	3100	2081-0090	2081-TRNK	MARQUARDT AV	Water mark (50%)	No action needed.	N/A
43	3100	2080-0147	2080-0152	ALONDRA BV	Water mark (40%)	No action needed.	N/A

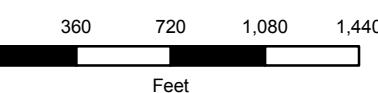
ENCLOSURE 2

CCTV PROJECT

YOTV0910B

Santa Fe Springs

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

- QMR**

 - 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

- Ⓐ Other
 - Standard
 - ▲ DROP
 - Shallow
 - ◆ Trap

Siphon

P Pump Station

- ## Maintained by Others

Trunk Lines:

Trunk Manholes

- Non SMD Sewer
 - Non SMD Manholes

The logo consists of a blue square containing a white outline of a map of Southern California, specifically the Los Angeles area. To the right of the map icon, the text "SMD Operations Maps" is written in a bold, black, sans-serif font.

MAY 2013

ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

Santa Fe Springs

**QUICK
MAINTENANCE
RATING
(QMR)**



0 430 860 1,290 1,720
Feet

Legend

- SMD Sanitary Sewers**
- QMR**
 - 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

- Other
- Manhole Type**
 - Standard
 - ▲ DROP
 - Shallow
 - ◆ Trap
 - Siphon
 - P Pump Stations

Maintained by Others

Trunk Lines:

- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

Non SMD Sewer

- Non SMD Sewer
- Non SMD Manholes

Y0TV0910B

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C - 2080

C - 2130

C - 2081

C - 2131

C - 2132

MAY 2013

ENCLOSURE 2
HIGH WATER LEVELS
CITY OF SANTA FE SPRINGS (YOTV0910B)

as of 05/05/2010

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (ft)
1	5121	2079-0100	2079-0105	BLOOMFIELD AV	Water mark (60%)	
2	5100	2081-0050	2081-0133	SHOEMAKER AV	Water level: 100% (siphon)	
3	5100	2081-0051	2081-CITY	SHOEMAKER AV	Water level: 100% (siphon)	
4	5100	2081-0091	2081-0092	MARQUARDT AV	Water level: 85% (upstream of trunk line)	
5	5100	2081-0093	2081-0092	MARQUARDT AVE	Water level: 85% (upstream of trunk line)	
6	4A21	2081-0049	2081-0050	SHOEMAKER AV	Water level: 85% (upstream of siphon)	
7	4200	2080-0155	2080-0154	SHOEMAKER AV	Water level: 85% (upstream of trunk line)	
8	4200	2081-0093	2081-0094	MARQUARDT AV	Water level: 85% (upstream of trunk line)	
9	4131	2081-0038	2081-0040	ALONDRA BV	Camera underwater (sag): 90' - 180'	90
10	4131	2081-0134	2081-0247	EASEMENT	High water level (sag) due to bend in the line	19
11	4121	2081-0113	2081-0118	SPRING AV	Camera underwater: 260' 350'	90
12	4100	2081-0118	2081-0119	EXCELSIOR DR	Water mark (60%)	
13	4100	2081-0094	2081-0096	MARQUARDT AV	Water mark: 60% (upstream of trunk line)	
14	4100	2081-0094A	2081-0094	MARQUARDT AVE	Water level: 60% (upstream of trunk line)	
15	3121	2080-0254	2080-0279	EASEMENT	High water level (sag): 50' - 100'	50
16	3100	2081-0110	2081-PVT/	SPRING AV	Water mark: 45%	
17	3100	2081-0112	2081-0113	SPRING AV	Water mark: 50%	
18	3100	2081-0112	2081-0117	TALC ST	Water mark: 50%	
19	3100	2081-0029	2081-0030	ALONDRA BV	Water mark: 40%	
20	3100	2081-0090	2081-0091	MARQUARDT AV	Water mark: 50% (upstream of trunk line)	
21	3100	2081-0090	2081-TRNK	MARQUARDT AV	Water mark: 50% (upstream of trunk line)	
22	3100	2080-0147	2080-0152	ALONDRA BV	High water level (sag): 10' - 40'	30

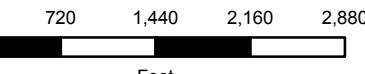
ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

City of Santa Fe Springs

HIGH WATER LEVEL



Legend

High Water Level

SMD Manholes

Other

Manhole Type

Standard

Drop

Shallow

Trap

Siphon

Pump Stations

Maintained by Others

Trunk Lines:

Trunk Main Lines

Trunk Force Mains

Trunk Manholes

Non SMD Sewer

Non SMD Sewer

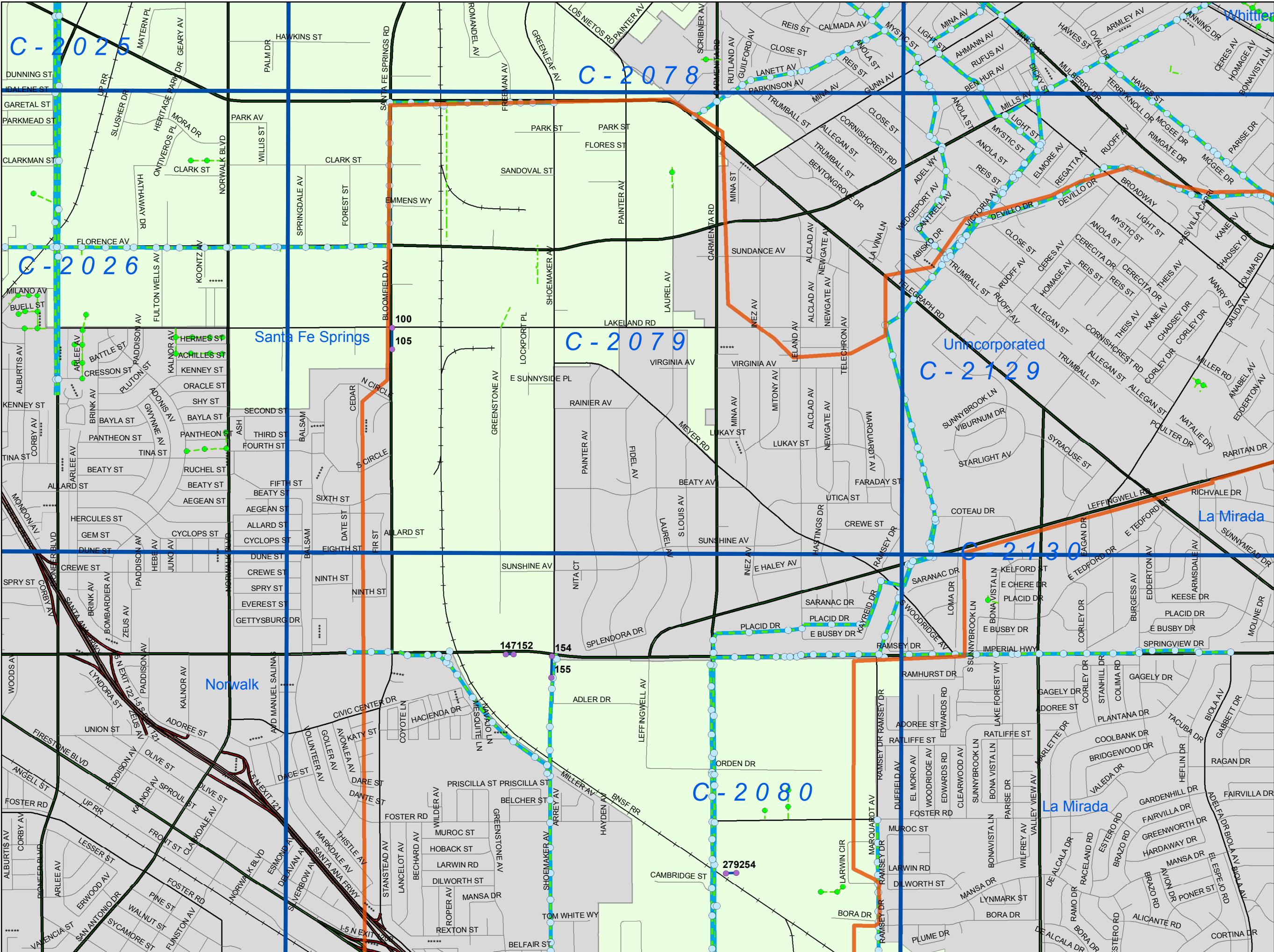
Non SMD Manholes

Y0TV0910B

SMD Operations Maps

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MAY 2013



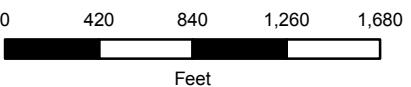
ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

City of Santa Fe Springs

HIGH WATER LEVEL



Legend

High Water Level

SMD Manholes

Other

Manhole Type

- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- Siphon
- P Pump Stations

Maintained by Others

Trunk Lines:

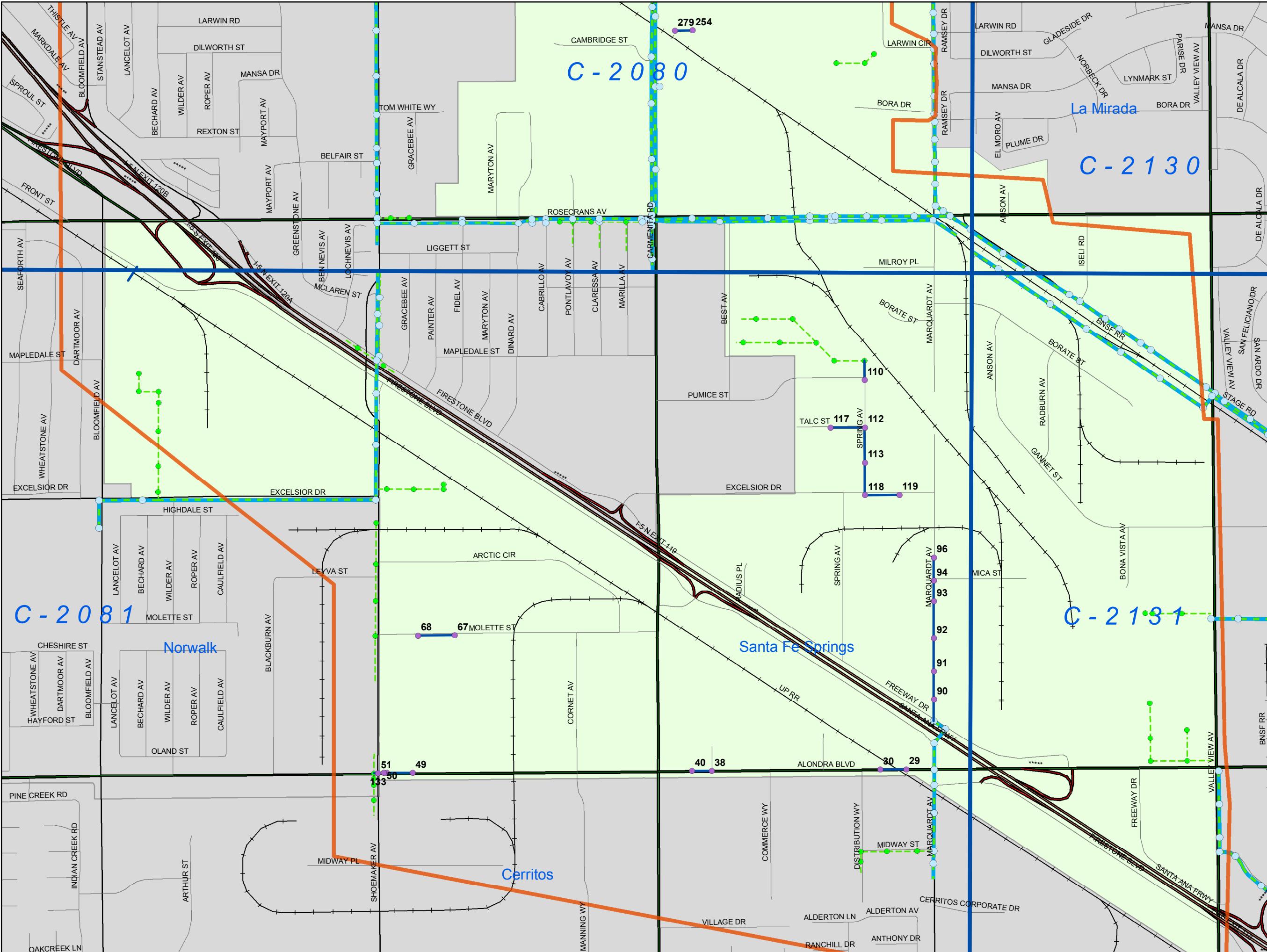
- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

Non SMD Sewer

- Non SMD Sewer
- Non SMD Manholes
- Y0TV0910B
- SMD Operations Maps

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MAY 2013





COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

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Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

{date}

IN REPLY PLEASE
REFER TO FILE: SM-1

Dear:

SEWER LATERAL ROOT INTRUSION

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order.

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at XXXX to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify the District office, XXXX, Sewer Maintenance Division, at XXXX.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division

XX:

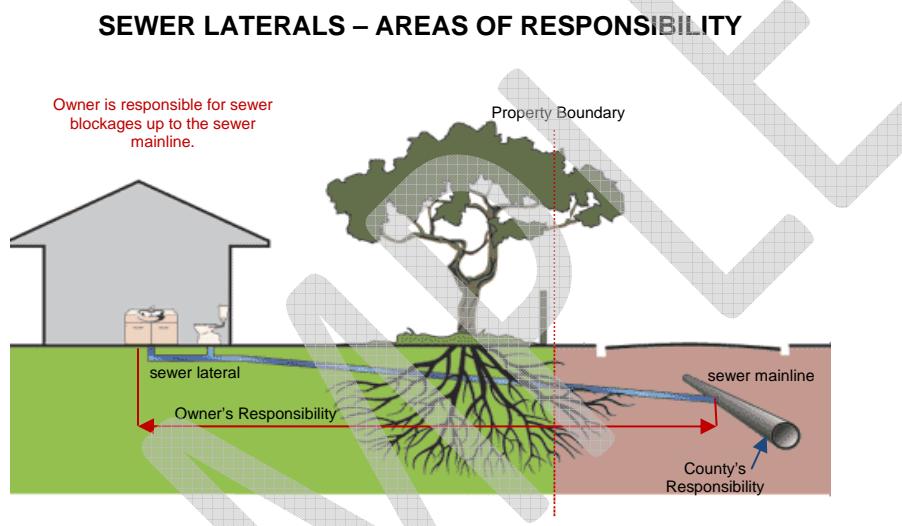
Enc.

XXXX
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes the portion that may be located within the public right of way (under the asphalt and street landscaping).



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. "Out of sight, out of mind" is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

- Quick Structural Rating Report Priority List
- Quick Structural Rating Map
- Rehabilitation Projects Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF SANTA FE SPRINGS (YOTV0910B)
as of 05/05/2010

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION (FEET)	PROPOSED CORRECTIVE ACTION	LENGTH OF REPAIR (FT)
1	5200	2079-0641	2079-0640	PATTERSON PL	Hole Soil Visible 46'	Point Repair	
2	513I	2080-0215	2080-0216	CAMBRIDGE ST	Hole: 37; cracks: multiple locations	Lining: MH to MH	325
3	5141	2080-0277	2080-0276	ORDEN DR	Broken/fractures : 66	Point Repair	
4	5141	2079-0067	2079-0068	PAINTER AV	Broken/hole: 332	Lining: MH to MH	337
5	5131	2080-0243	2080-0244	FOSTER RD	Broken/fractures: 162	Point Repair	
6	5121	2079-0208	2079-0253	ALLEY	Broken/fractures: 271	Point Repair	
7	5100	2079-0118	2079-0119	GREENSTONE AV	Broken/hole: 131	Structural integrity intact. No action needed.	
8	5100	2080-0011	2080-TRNK	IMPERIAL HWY	Hole (with gasket showing): 35	Structural integrity intact. No action needed.	
9	4D37	2079-0250	2079-0251	CARMENITA RD	Fractures: 17, 117, 249 ; cracks	Structural integrity intact. No action needed.	
10	453G	2079-0251	2079-0252	CARMENITA RD	Fractures: 43, 104, 246, 265, 269; cracks	Lining: MH to MH	346
11	4738	2079-0218	2079-TRNK	TELEGRAPH RD	Fractures: 8, 11 , 22, 49: cracks	Lining: MH to MH	55
12	4432	2079-0233	2079-0247	CARMENITA RD	Fractures: 76, 147 , 183, 320: cracks	Lining: MH to MH	336
13	4222	2081-0131	2081-0132	EASEMENT	Fractures: 151, 194, 198 ; cracks	Lining: MH to MH	215
14	413F	2079-0214	2079-0252	CARMENITA RD	Fractures: 186; cracks	Lining: MH to MH	193
15	413I	2079-0218	2079-0221	TELEGRAPH RD	Fractures: 274; cracks	Structural integrity intact. No action needed.	
16	4131	2079-0215	2079-0233	CARMENITA RD	Fractures: 26, 55	Structural integrity intact. No action needed.	
17	4125	2079-0198	2079-0199	LAUREL AV	Fractures: 157; cracks	Structural integrity intact. No action needed.	
18	4121	2131-0022	2131-0023	EASEMENT	Fractures: 60, 66	Lining: MH to MH	69
19	4121	2080-0168	2080-0169	EASEMENT	Fractures: 186	Structural integrity intact. No action needed.	
20	4100	2081-0013	2081-0014	FIRESTONE BV	Fractures: 109	Structural integrity intact. No action needed.	
21	4100	2079-0035	2079-0036	EASEMENT	Hole: 116	Structural integrity intact. No action needed.	
22	4100	2081-0094	2081-0096	MARQUARDT AV	Fractures: 5	Structural integrity intact. No action needed.	
23	4100	2080-0008	2080-0009	IMPERIAL HWY	Fractures: 263	Structural integrity intact. No action needed.	
24	4100	2079-0212	2079-0213	LAUREL AV	Fractures: 295	Structural integrity intact. No action needed.	
25	4100	2079-0012	2079-TRNK	FLORENCE AV	Fractures: 5	Structural integrity intact. No action needed.	

ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

Santa Fe Springs

**QUICK
STRUCTURAL
RATING
(QSR)**



0 340 680 1,020 1,360
Feet

Legend

SMD Sanitary Sewers

QSR

1: MINOR

2: MINOR TO MODERATE

3: MODERATE

4: SIGNIFICANT

5: MOST SIGNIFICANT

SMD Manholes

Other

Manhole Type

Standard

Drop

Shallow

Trap

Siphon

Pump Stations

Maintained by Others

Trunk Lines:

Trunk Main Lines

Trunk Force Mains

Trunk Manholes

Non SMD Sewer

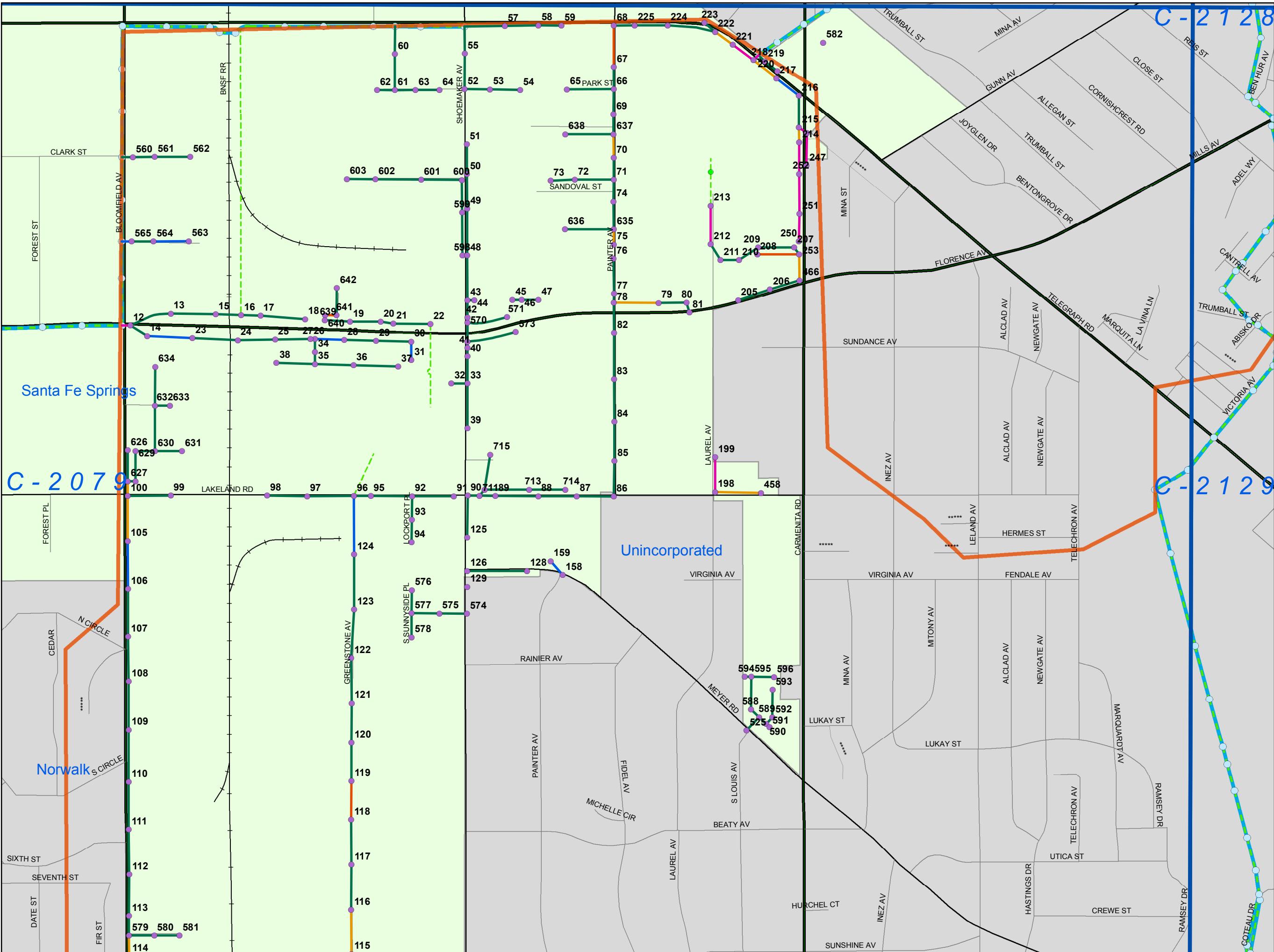
Non SMD Manholes

Y0TV0910B

SMD Operations Maps

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MAY 2013



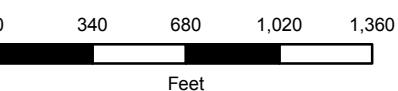
ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

Santa Fe Springs

**QUICK
STRUCTURAL
RATING
(QSR)**



Legend

- SMD Sanitary Sewers**
- QSR**
- 1: MINOR
- 2: MINOR TO MODERATE
- 3: MODERATE
- 4: SIGNIFICANT
- 5: MOST SIGNIFICANT

SMD Manholes

- Other
- Manhole Type**
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- Siphon
- P Pump Stations

Maintained by Others

- Trunk Lines:**
- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

- Non SMD Sewer**
- Non SMD Sewer
- Non SMD Manholes

- Y0TV0910B**

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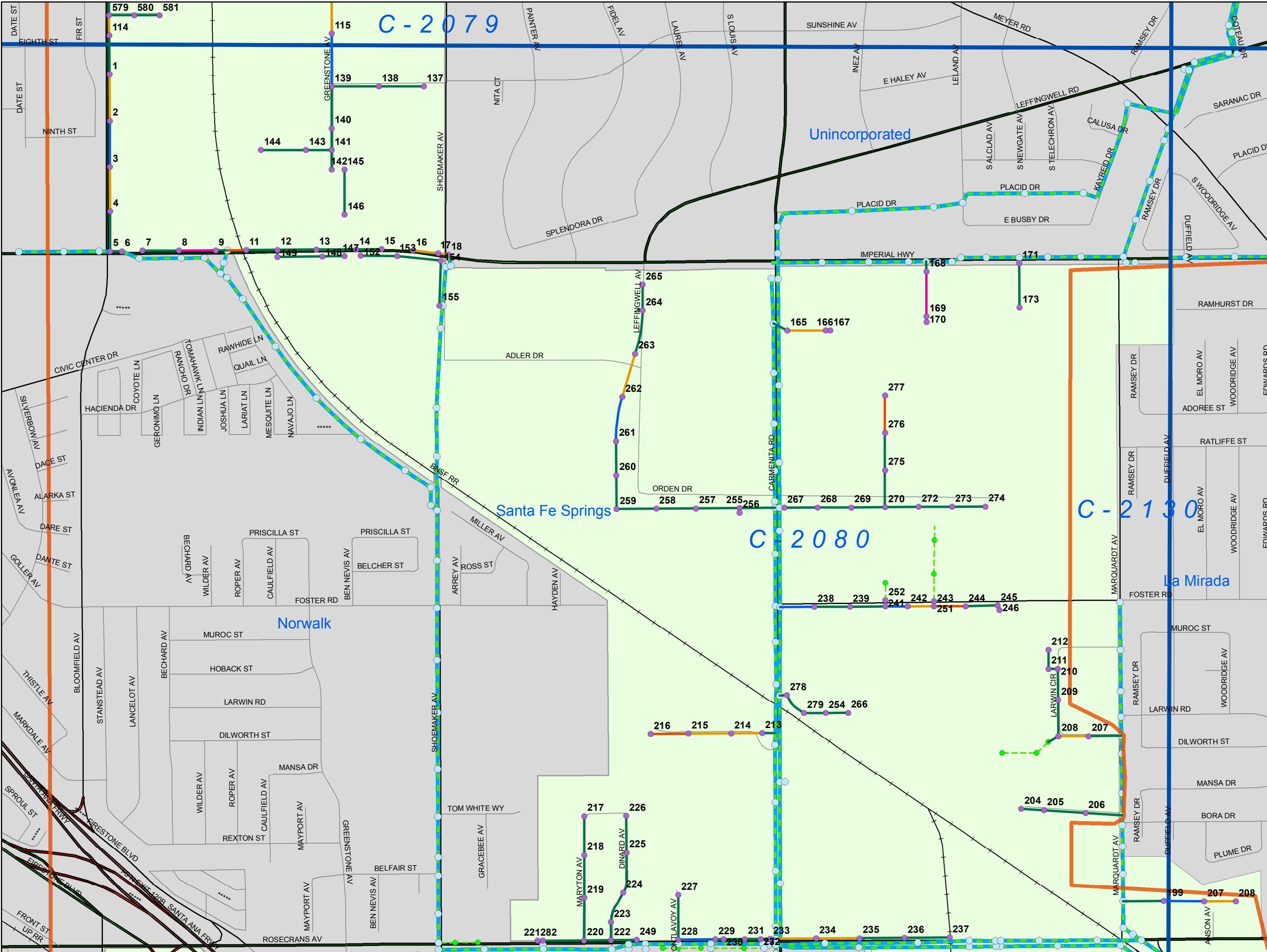
MAY 2013

C - 2079

Unincorporated

C - 2080

La Mirada



ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

Santa Fe Springs

**QUICK
STRUCTURAL
RATING
(QSR)**



0 400 800 1,200 1,600
Feet

Legend

- SMD Sanitary Sewers**
- QSR**
- 1: MINOR
- 2: MINOR TO MODERATE
- 3: MODERATE
- 4: SIGNIFICANT
- 5: MOST SIGNIFICANT

SMD Manholes

- Other
- Manhole Type**
- Standard
- Drop
- Shallow
- Trap
- Siphon
- P Pump Stations

Maintained by Others

Trunk Lines:

- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

Non SMD Sewer

- Non SMD Sewer
- Non SMD Manholes
- Y0TV0910B

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C - 2080

C - 2130

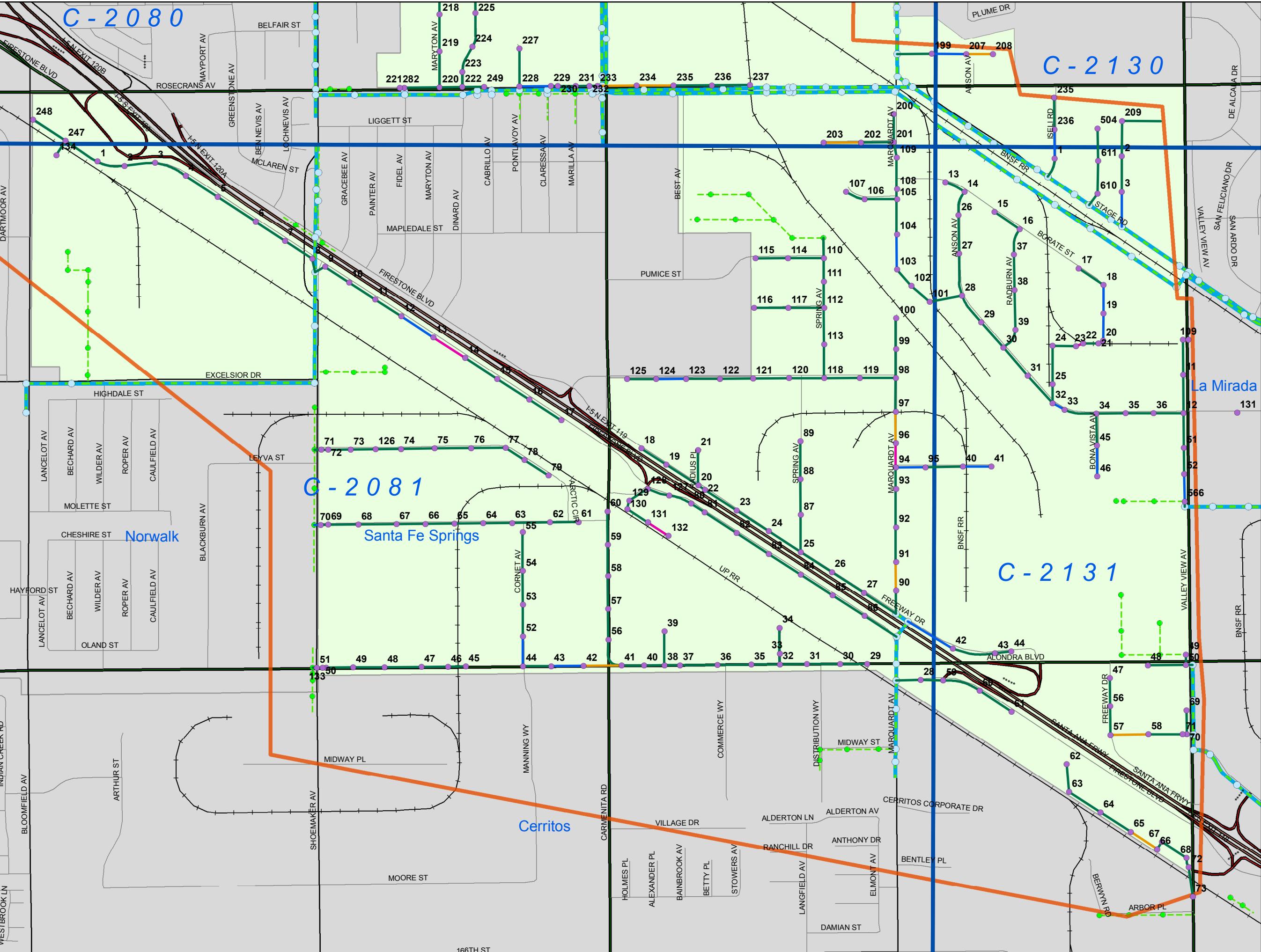
C - 2081

C - 2131

Norwalk

Cerritos

Santa Fe Springs



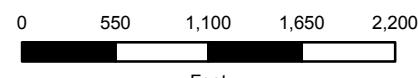
ENCLOSURE 3

CCTV PROJECT

Y0TV0910B

City of Santa Fe Springs

LINING & POINT REPAIR PROJECTS



Legend

- Lining MH to MH
- Point Repair

SMD Manholes

- Other
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- Siphon
- Pump Stations

Maintained by Others

Trunk Lines:

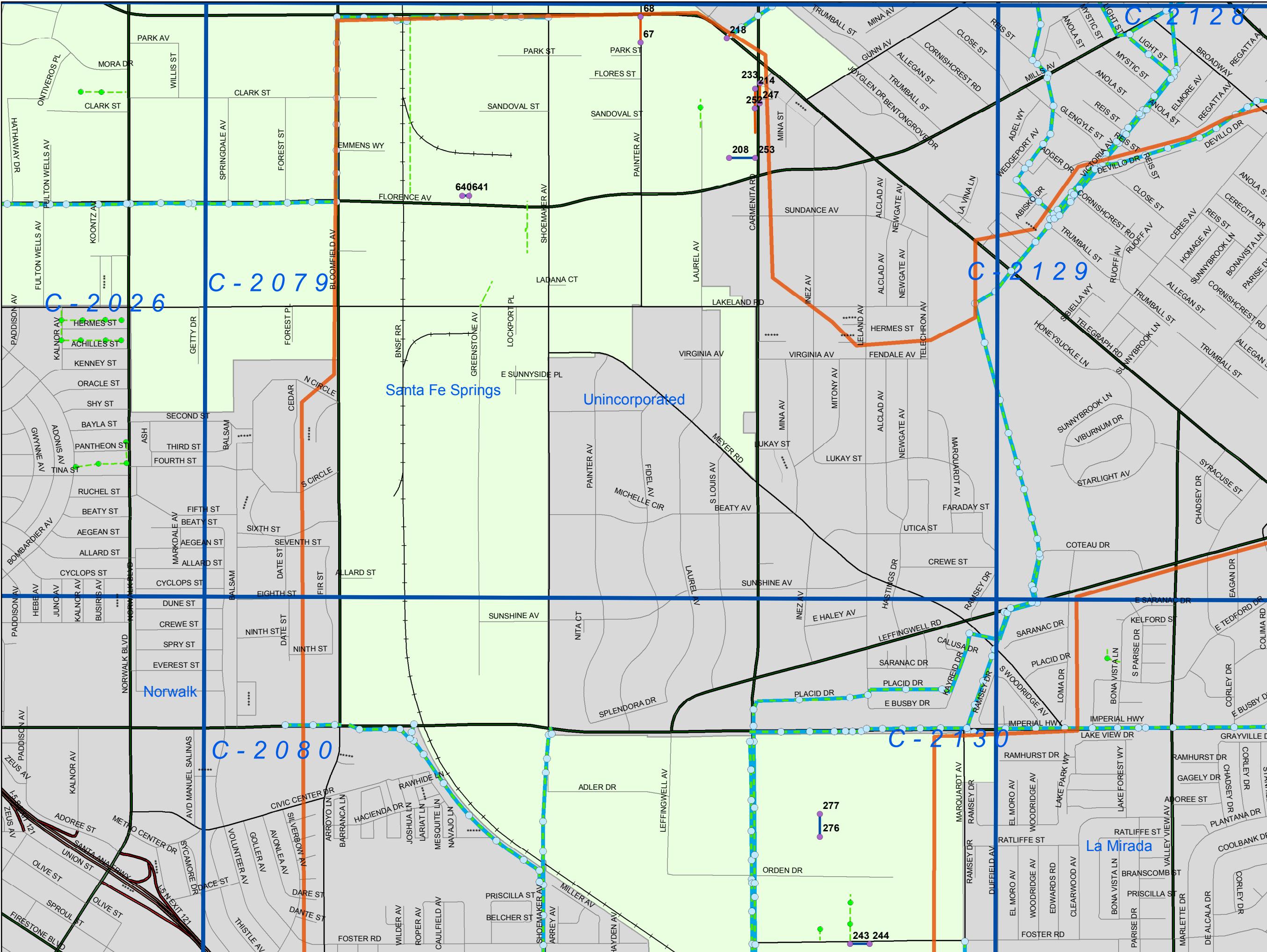
- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

Non SMD Sewer

- Non SMD Sewer
- Non SMD Manholes
- Y0TV0910B
- SMD Operations Maps

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MAY 2013



ENCLOSURE 3

CCTV PROJECT

Y0TV0910B

City of Santa Fe Springs

LINING & POINT REPAIR PROJECTS



0 420 840 1,260 1,680
Feet

Legend

- Lining MH to MH
- Point Repair

SMD Manholes

- ◊ Other
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- Siphon
- P Pump Stations

Maintained by Others

Trunk Lines:

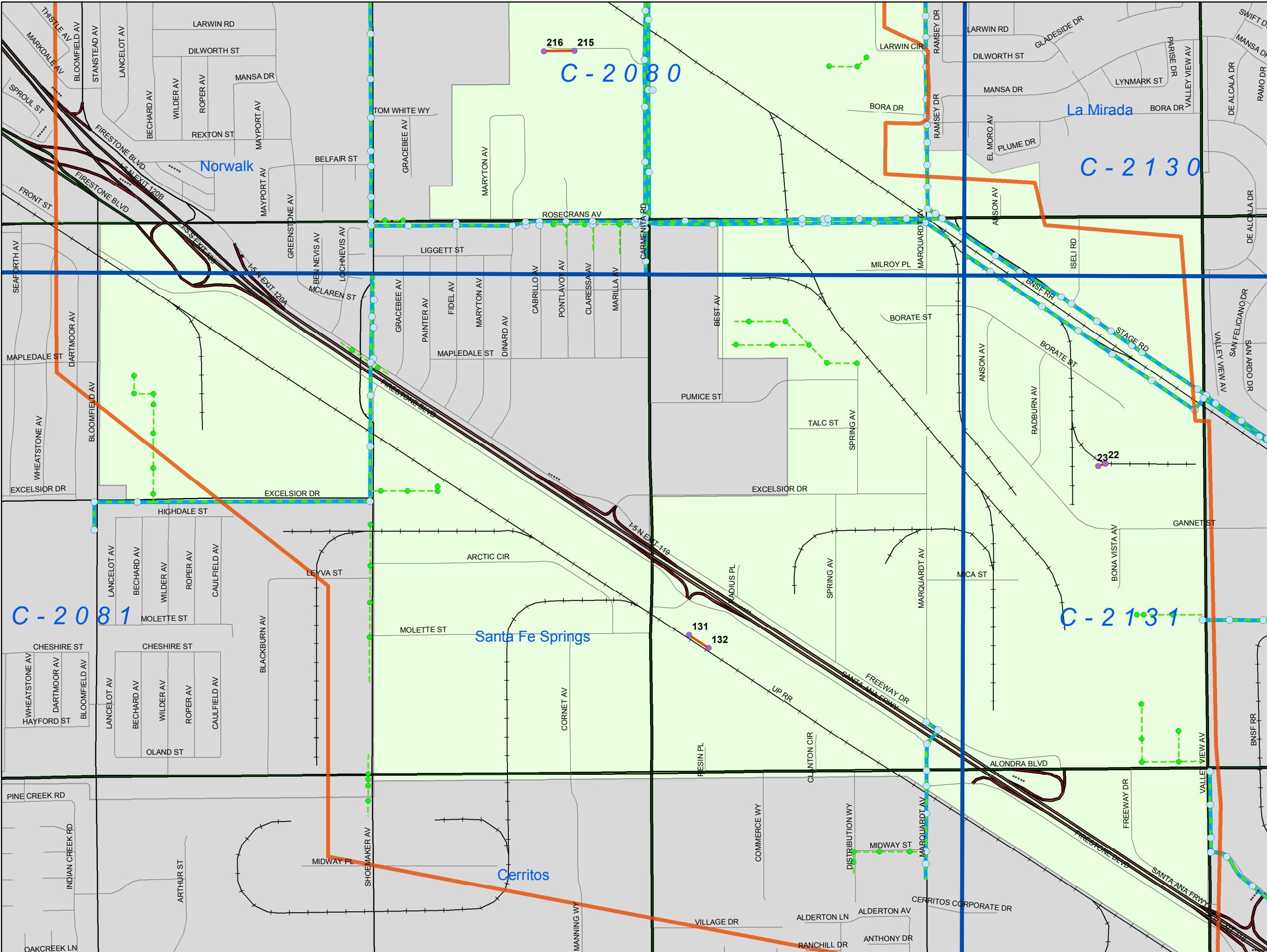
- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

Non SMD Sewer

- Non SMD Sewer
- Non SMD Manholes
- Y0TV0910B
- SMD Operations Maps

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MAY 2013



ENCLOSURE 4:

**Infrastructure Inspection Reports
for Grades 4 and 5**



National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

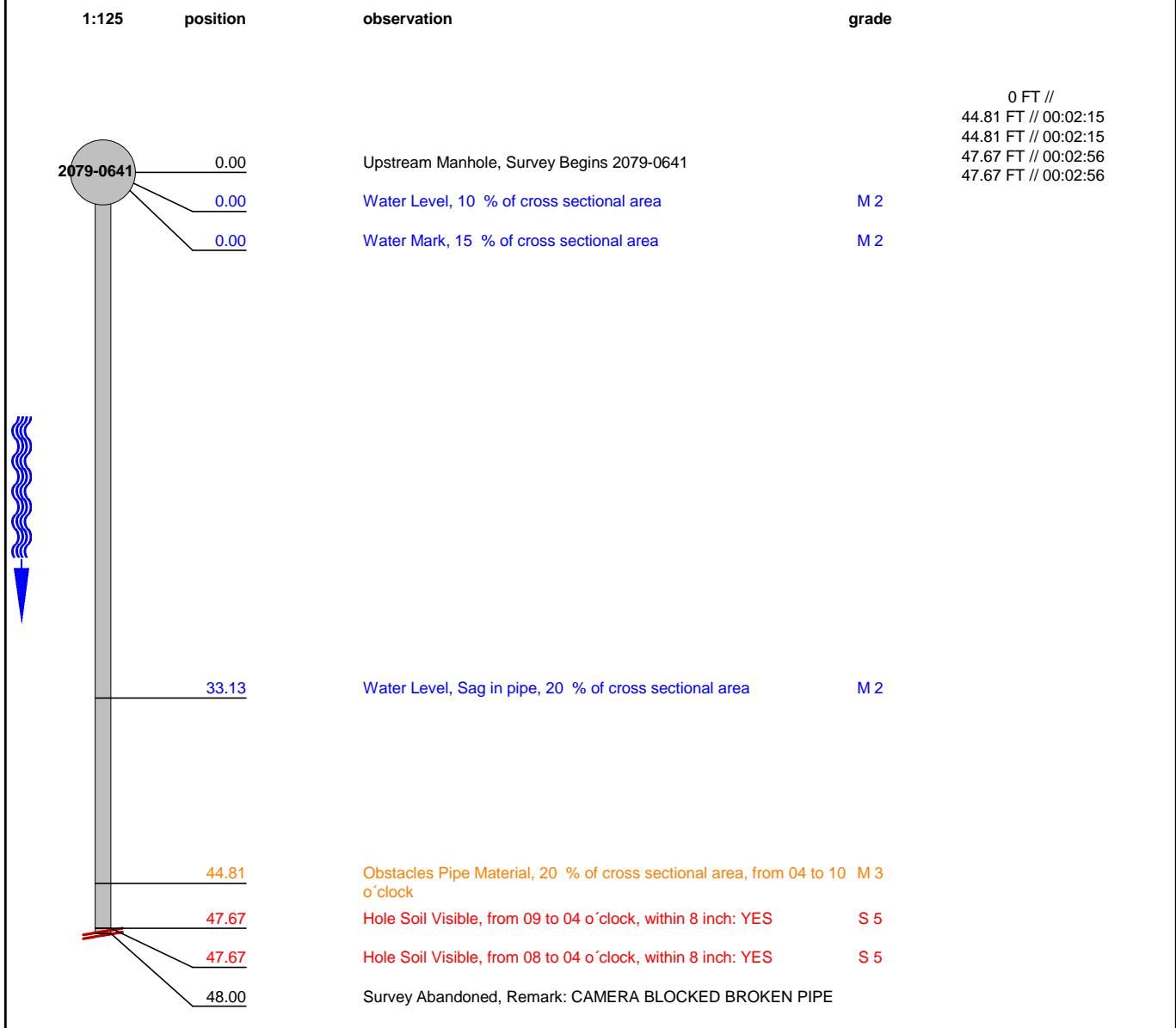
Inspection report

Date: 20100922	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 3331	PSR: 0
Total Pipe Length: 73	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 09/22/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: PATTERSON PL	Flow Control: N Not Controlled	Start MH: 2079-0641
City: SFS YOTV0910B	Year Renewed	End MH: 2079-0640
Location Code: G Parking Lot	Tape/Media #: DVD	pipe length: 48 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 10/10
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 73
Drain. Area:	0641/2079-0640/2079	Lining Method:	

Remark:: **BROKEN PIPE**



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	3123	10	9	19	5	2.25	3.17



National Plant Services
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LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

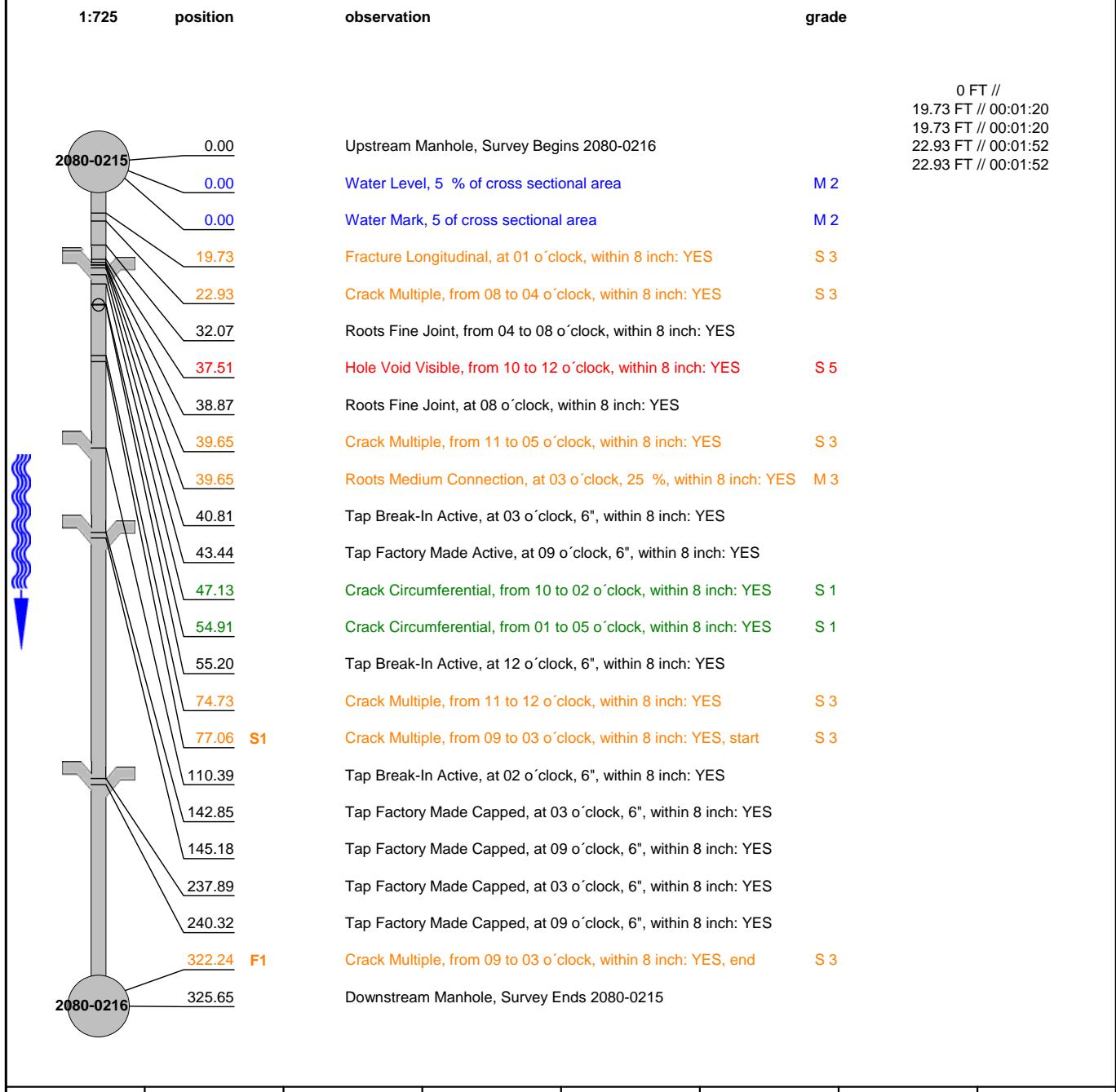
Inspection report

Date: 20100225	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B.FUGATE	section number: 401	PSR: 117778
Total Pipe Length: 294	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 02/25/2010	Pre-Cleaned: J Jetting	Map Grid #: 2080

Street: CAMBRIDGE ST	Flow Control: N Not Controlled	Start MH: 2080-0215
City: SFS	Year Renewed	End MH: 2080-0216
Location Code: G Parking Lot	Tape/Media #:	pipe length: 325.65 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 294
Drain. Area: 0215/2080-0216/2080	Lining Method: Category:

Remark::	MH#S REVERSED ON DATABASE
----------	----------------------------------



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
513J	3122	166	7	173	2.96	2.33	2.93



National Plant Services
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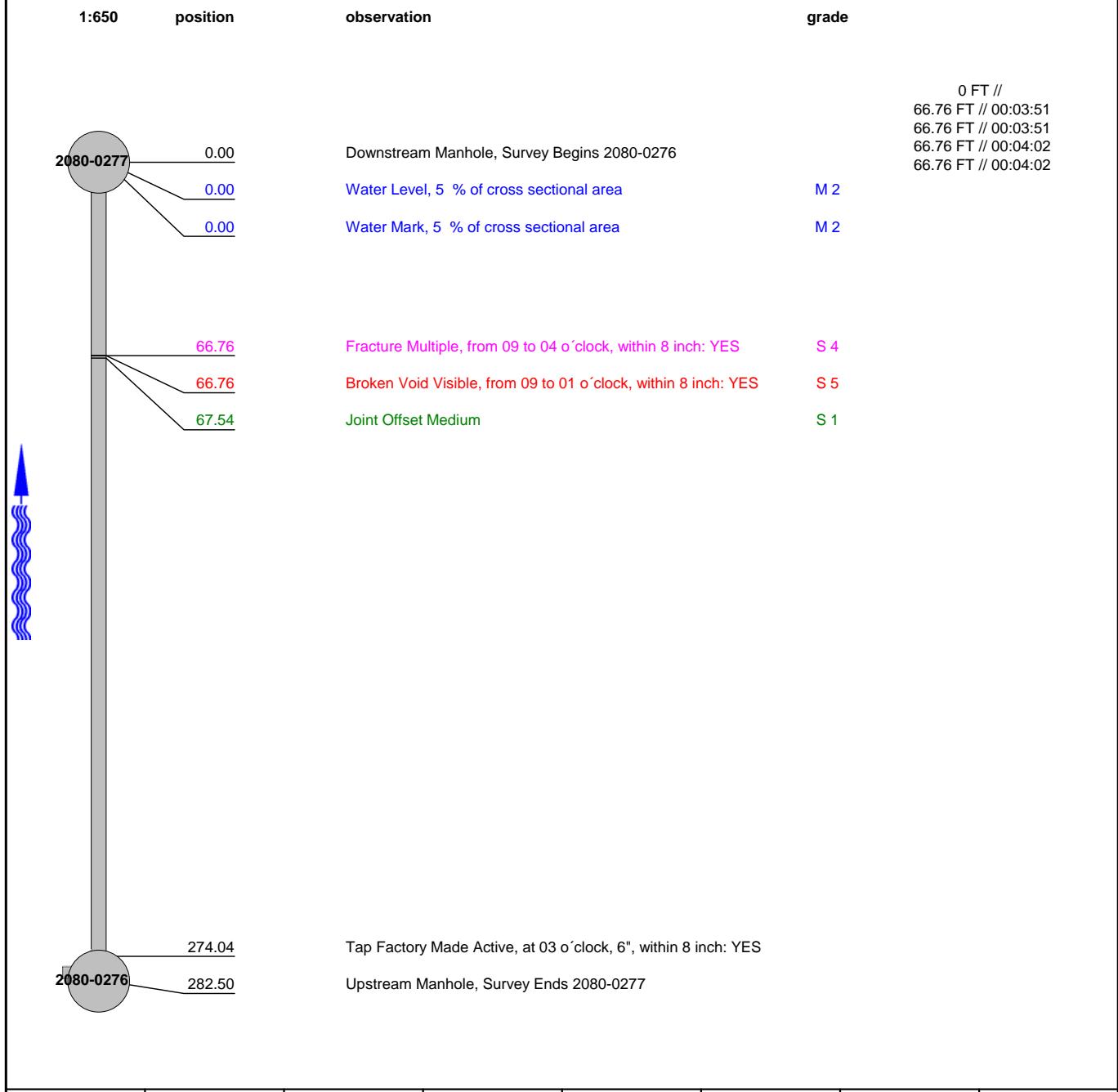
Inspection report

Date: 20100308	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B.FUGATE	section number: 584	PSR: 767333
Total Pipe Length: 290	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/08/2010	Pre-Cleaned: J Jetting	Map Grid #: 2080

Street: ORDEN DR	Flow Control: N Not Controlled	Start MH: 2080-0277
City: SFS	Year Renewed	End MH: 2080-0276
Location Code: C Light Highway	Tape/Media #:	pipe length: 282.5 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 8/8
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 290
Drain. Area:	0277/2080-0276/2080	Lining Method:	

Remark:: Against the flow



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2200	10	4	14	3.33	2	2.8



National Plant Services
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LONG BEACH 90813 CA
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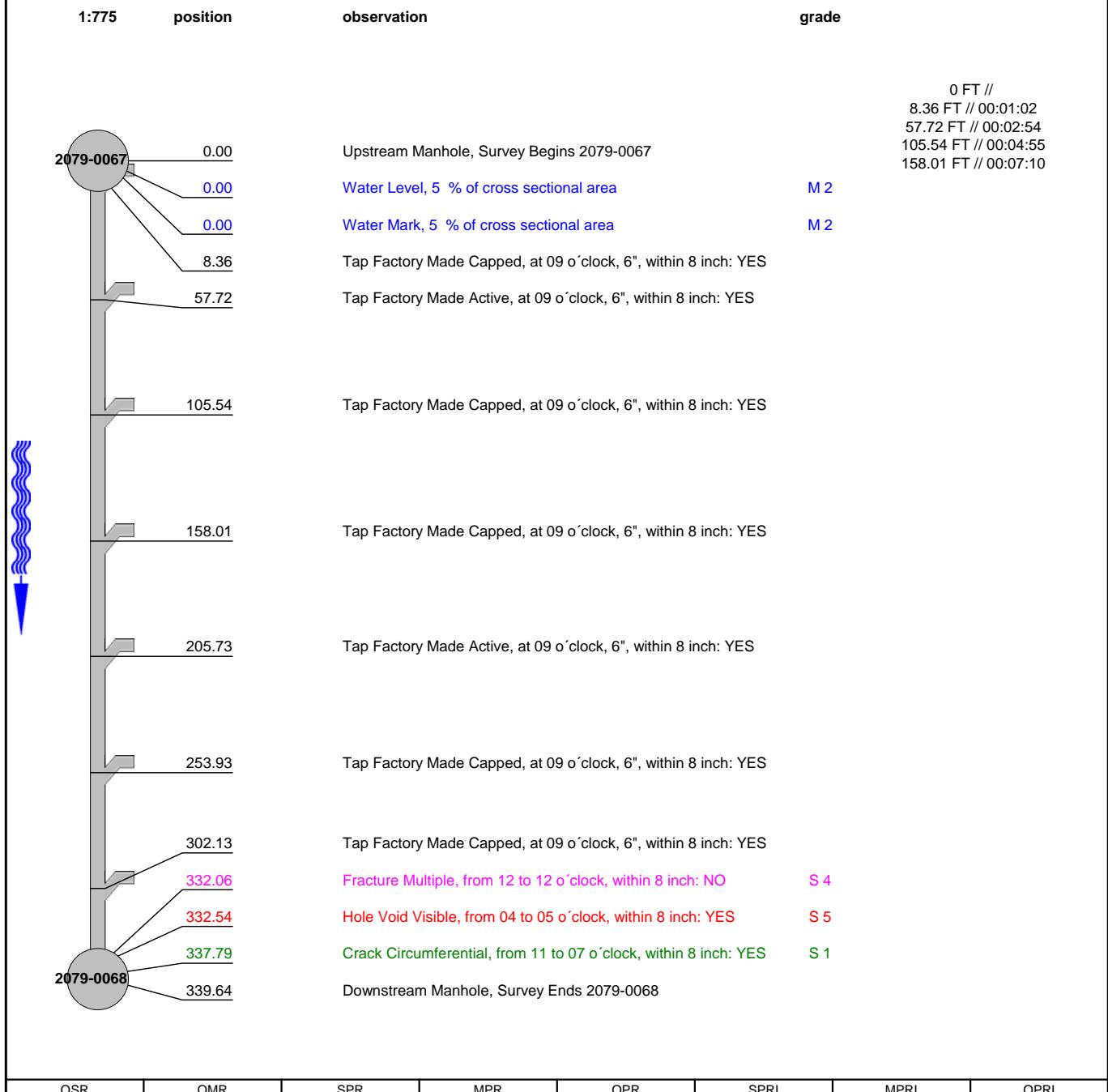
Inspection report

Date: 20100408	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1425	PSR: 118517
Total Pipe Length: 324	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/08/2010	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 2079

Street: PAINTER AV	Flow Control: N Not Controlled	Start MH: 2079-0067
City: SFS	Year Renewed	End MH: 2079-0068
Location Code: C Light Highway	Tape/Media #:	pipe length: 339.64 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 324
Drain. Area: 0067/2079-0068/2079	Lining Method: Category:

Remark:: HOLE AT 332FT



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2200	10	4	14	3.33	2	2.8



National Plant Services
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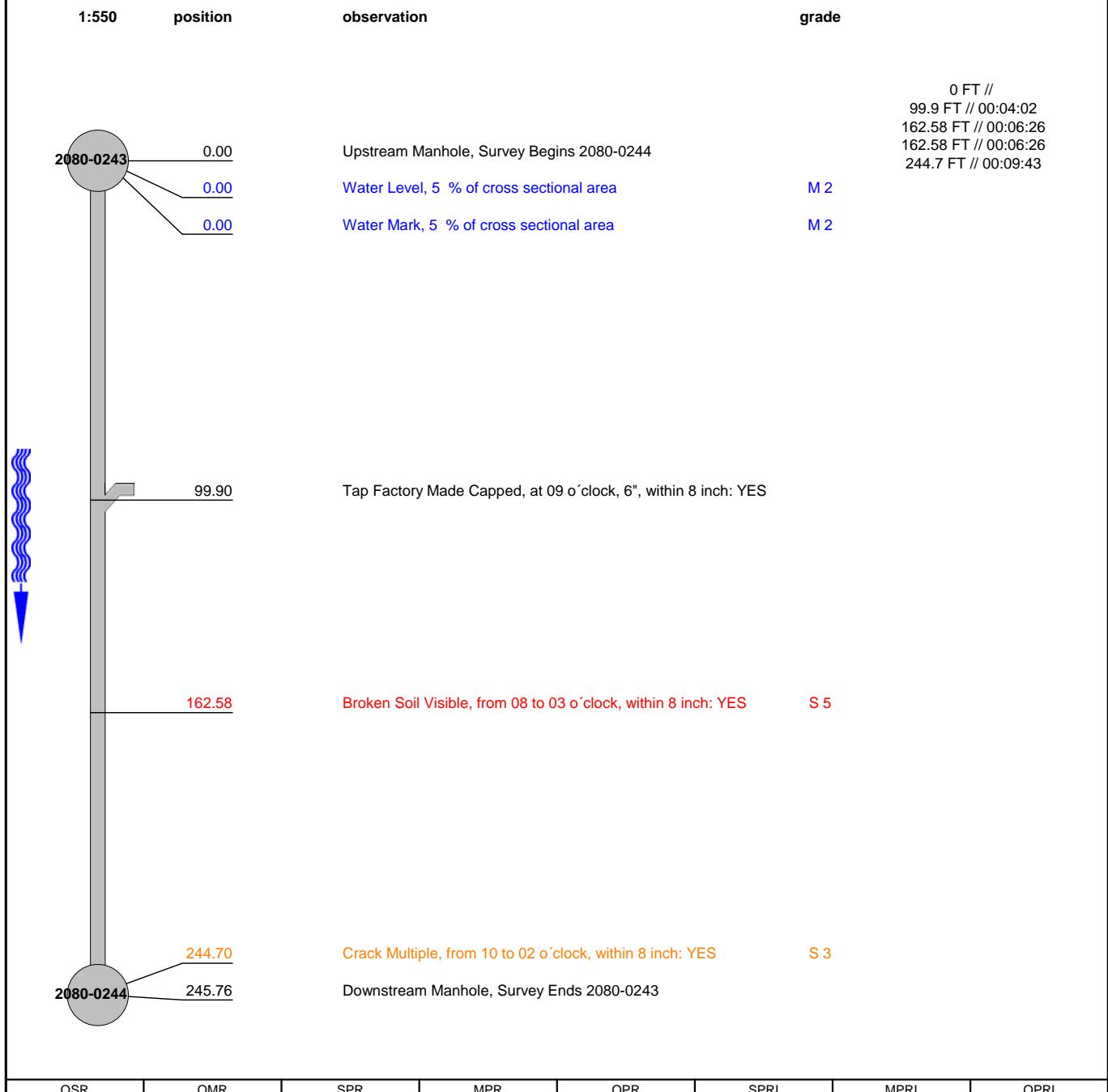
Inspection report

Date: 20100308	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B.FUGATE	section number: 573	PSR: 117807
Total Pipe Length: 200	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/08/2010	Pre-Cleaned: J Jetting	Map Grid #: 2080

Street: FOSTER RD	Flow Control: N Not Controlled	Start MH: 2080-0243
City: SFS	Year Renewed	End MH: 2080-0244
Location Code: C Light Highway	Tape/Media #:	pipe length: 245.76 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 200
Drain. Area: 0243/2080-0244/2080	Lining Method: Category:

Remark:: MH#S REVERSED ON DATABASE



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2200	8	4	12	4	2	3



National Plant Services
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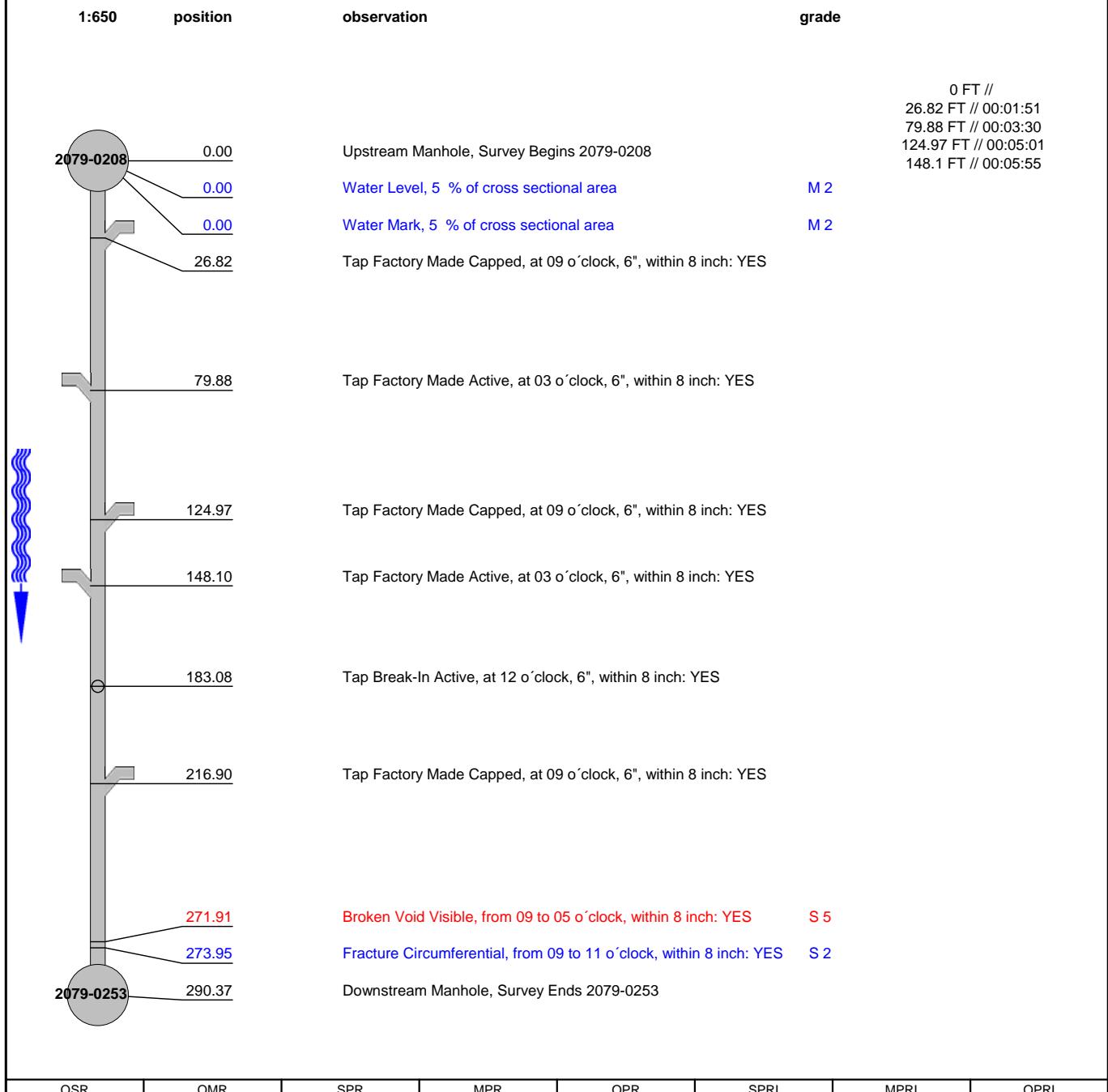
Inspection report

Date: 20100412	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1443	PSR: 118424
Total Pipe Length: 328	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: ALLEY	Flow Control: N Not Controlled	Start MH: 2079-0208
City: SFS	Year Renewed	End MH: 2079-0253
Location Code: G Parking Lot	Tape/Media #:	pipe length: 290.37 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 328
Drain. Area: 0208/2079-0253/2079	Lining Method: Category:

Remark:: NONE



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	2200	7	4	11	3.5	2	2.75



National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
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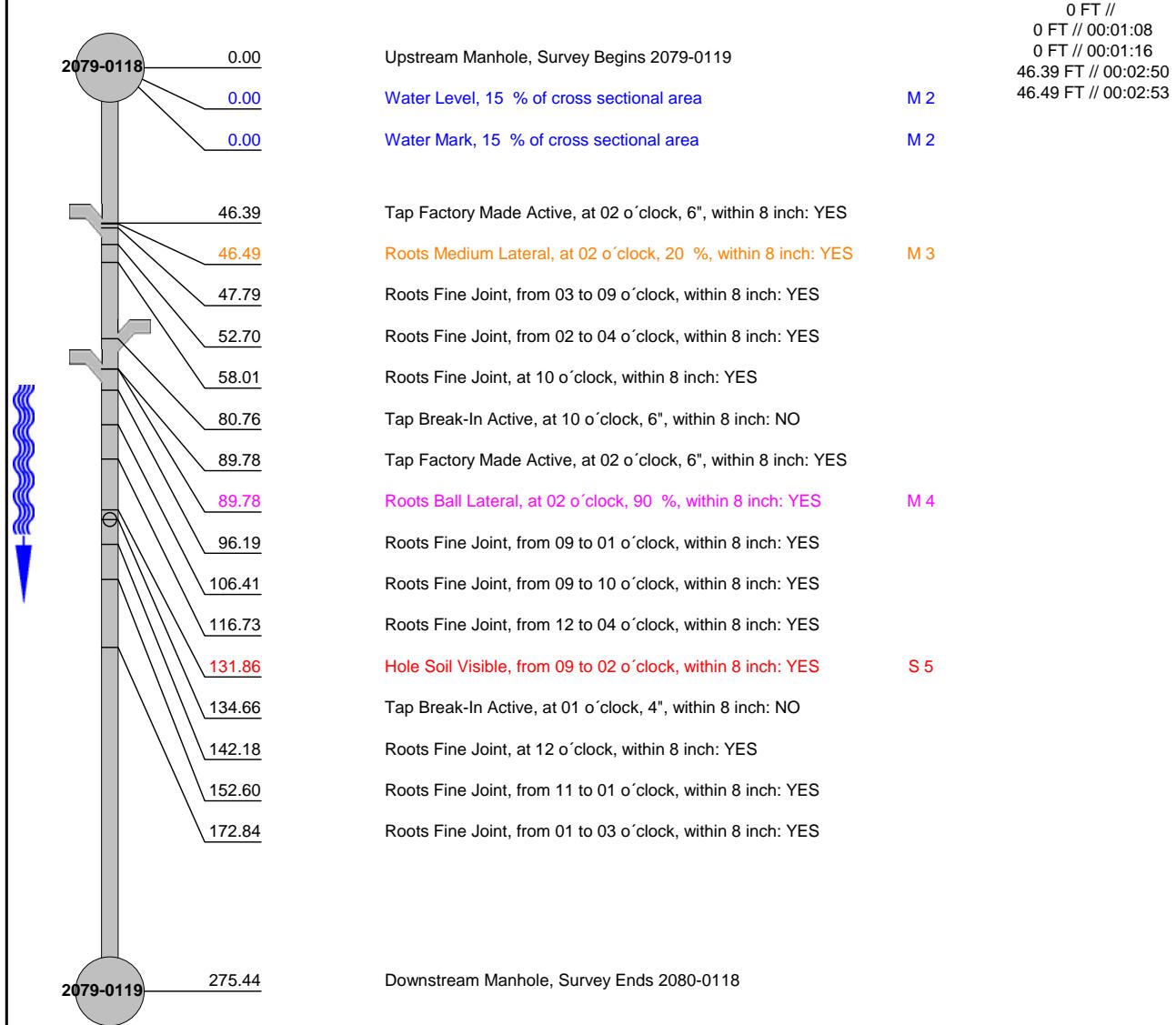
Inspection report

Date: 20100303	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 524	PSR: 118453
Total Pipe Length: 299	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/03/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: GREENSTONE AV	Flow Control: N Not Controlled	Start MH: 2079-0118
City: SFS	Year Renewed	End MH: 2079-0119
Location Code: C Light Highway	Tape/Media #:	pipe length: 275.44 ft
Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8	
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 299	
Drain. Area: 0118/2079-0119/2079	Lining Method:	
Remark:: BROKEN JOINT	Category:	

1:625	position	observation	grade
-------	----------	-------------	-------

MH NUMBERS ARE REVERSED IN DATA BASE.



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4131	5	11	16	5	2.75	3.2



National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

Inspection report

Date: 20100405	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1329	PSR: 118055
Total Pipe Length: 146	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/05/2010	Pre-Cleaned: J Jetting	Map Grid #: 2080

Street: IMPERIAL HWY	Flow Control: N Not Controlled	Start MH: 2080-0011
City: SFS	Year Renewed	End MH: 2080-TRNK
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 159.28 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 146
Drain. Area: 0011/2080-TRNK/2080	Lining Method: Category:

Remark:: AGAINST FLOW

1:375	position	observation	grade
2080-0011	0.00	Downstream Manhole, Survey Begins 2080-TRNK	0 FT // 35.76 FT // 00:01:47 35.76 FT // 00:01:47 113.5 FT // 00:05:13 154.51 FT // 00:06:54
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	35.76	Hole Void Visible, from 07 to 01 o'clock, within 8 inch: YES	S 5
	113.50	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	154.51	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	
2080-TRNK	159.28	Upstream Manhole, Survey Ends 2080-0011	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2200	5	4	9	5	2	3



National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

Inspection report

Date: 20100412	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1450	PSR: 118342
Total Pipe Length: 233	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: CARMENITA RD	Flow Control: N Not Controlled	Start MH: 2079-0250
City: SFS	Year Renewed	End MH: 2079-0251
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 251.98 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 233
Drain. Area: 0250/2079-0251/2079	Lining Method: Category:

Remark:: AGAINST FLOW

1:575	position	observation	grade
2079-0250	0.00	Downstream Manhole, Survey Begins 2079-0251	0 FT // 7.09 FT // 00:00:38 17.39 FT // 00:01:13 17.39 FT // 00:01:13 45.09 FT // 00:02:32
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 of cross sectional area	M 2
	7.09	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	17.39	Fracture Multiple, from 08 to 11 o'clock, within 8 inch: YES	S 4
	45.09	Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES	S 3
	61.61	Crack Multiple, from 09 to 04 o'clock, within 8 inch: YES	S 3
	63.55	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	67.44 S1	Crack Multiple, from 08 to 05 o'clock, within 8 inch: YES, start	S 3
	73.27	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	79.98 F1	Crack Multiple, from 08 to 05 o'clock, within 8 inch: YES, end	S 3
	106.99	Crack Multiple, from 01 to 08 o'clock, within 8 inch: YES	S 3
	117.68 S1	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES, start	S 4
	126.04	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	168.70	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	208.55	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
2079-0251	249.07 F1	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES, end	S 4
	251.98	Upstream Manhole, Survey Ends 2079-0250	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4D37	2200	129	4	133	3.79	2	3.69



National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

Inspection report

Date: 20100412	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1451	PSR: 118343
Total Pipe Length: 310	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: CARMENITA RD	Flow Control: N Not Controlled	Start MH: 2079-0251
City: SFS	Year Renewed	End MH: 2079-0252
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 346.05 ft
Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8	
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 310	
Drain. Area: 0251/2079-0252/2079	Lining Method:	
Remark:: NONE	Category:	

1:775	position	observation	grade
		Upstream Manhole, Survey Begins 2079-0251	0 FT //
	0.00	Water Level, 5 % of cross sectional area	41.59 FT // 00:02:02
	0.00	Water Mark, 5 % of cross sectional area	41.59 FT // 00:02:02
	41.59	Crack Multiple, from 08 to 03 o'clock, within 8 inch: YES	43.15 FT // 00:02:13
	43.15	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	43.92 FT // 00:02:21
	43.92	Fracture Multiple, from 12 to 09 o'clock, within 8 inch: YES	M 2
	78.03	Crack Multiple, from 08 to 05 o'clock, within 8 inch: YES	M 2
	104.95	Fracture Multiple, from 04 to 10 o'clock, within 8 inch: YES	S 3
	127.60	Crack Multiple, from 01 to 06 o'clock, within 8 inch: YES	S 3
	140.62	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	S 4
	140.71	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	146.84	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES, start	S 3
	182.99	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	S 4
	229.24	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	S 4
	246.44	Fracture Multiple, from 09 to 05 o'clock, within 8 inch: YES	S 4
	265.78	Fracture Multiple, from 01 to 09 o'clock, within 8 inch: YES	S 4
	269.28	Fracture Multiple, from 04 to 11 o'clock, within 8 inch: YES	S 4
	271.42	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	S 4
	313.89	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	S 4
	346.05	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES, end	F 1
	346.05	Downstream Manhole, Survey Ends 2079-0252	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
453H	2200	152	4	156	3.1	2	3.06



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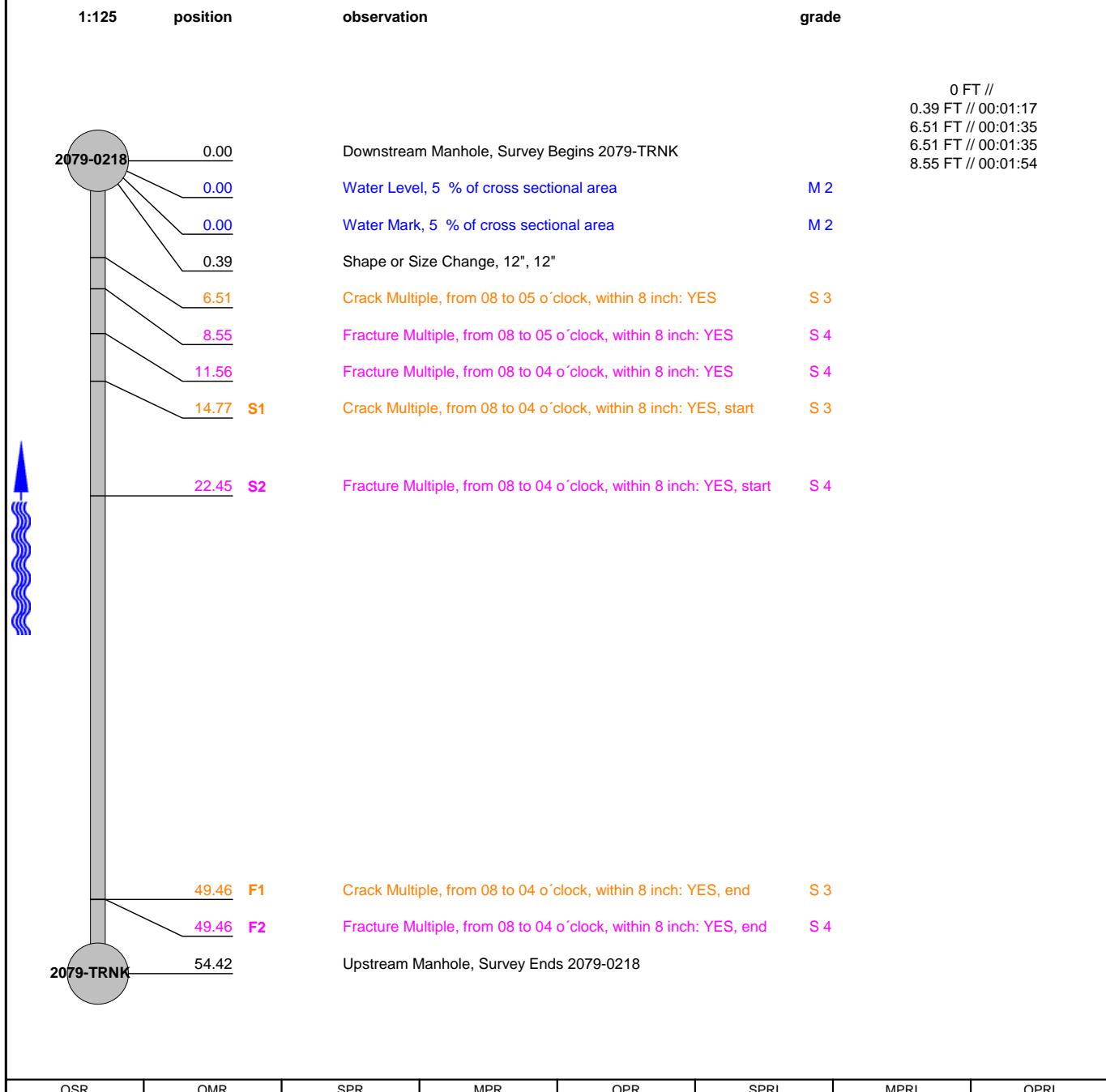
Inspection report

Date: 20100409	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1434	PSR: 118376
Total Pipe Length: 56	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/09/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: TELEGRAPH RD	Flow Control: N Not Controlled	Start MH: 2079-0218
City: SFS	Year Renewed	End MH: 2079-TRNK
Location Code: B Main Highway - Suburban/Rural	Tape/Media #:	pipe length: 54.42 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 56
Drain. Area: 0218/2079-TRNK/2079	Lining Method: Category:

Remark:: AGAINST FLOW



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4738	2200	52	4	56	3.47	2	3.29



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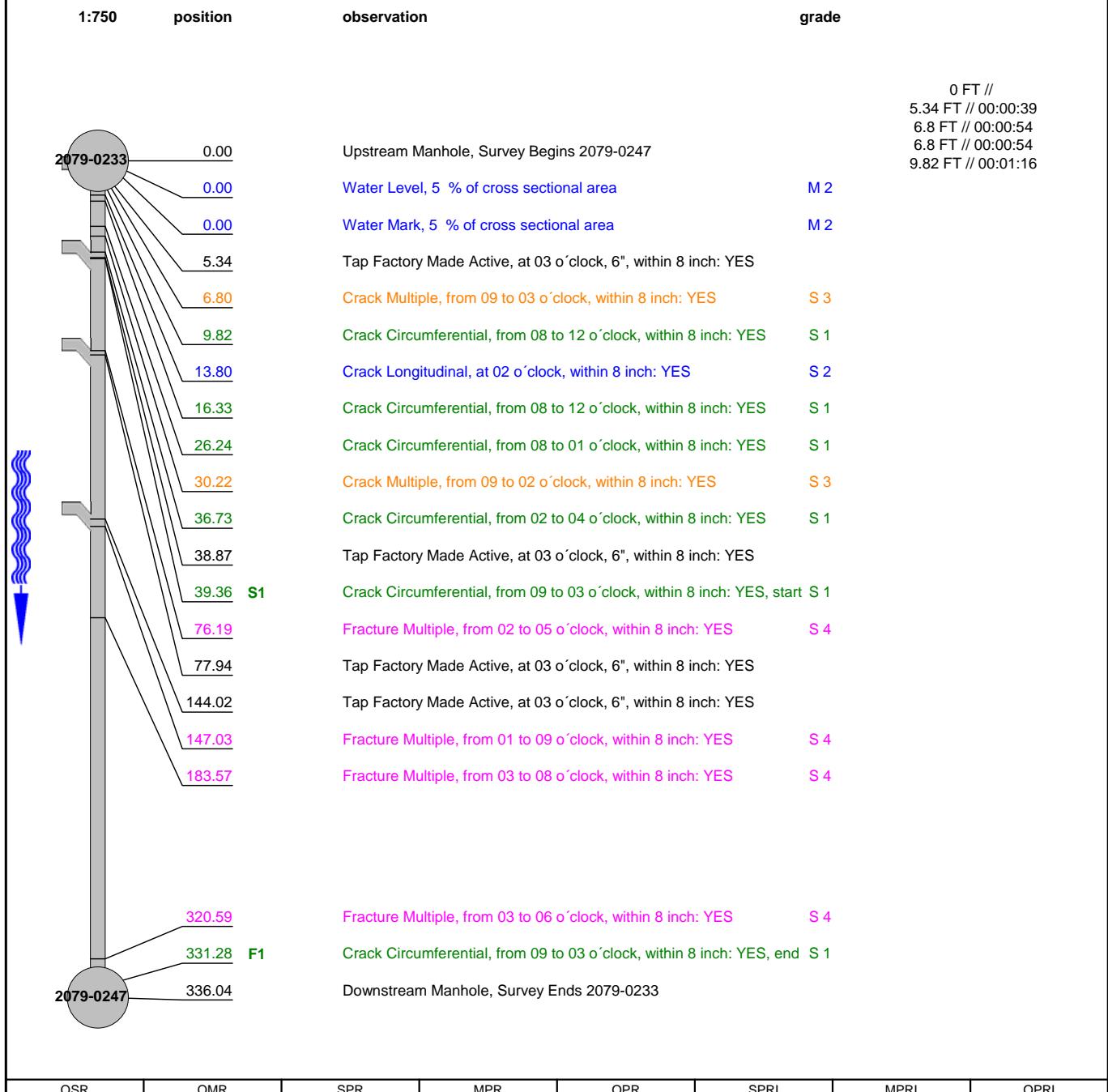
Inspection report

Date: 20100420	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1650	PSR: 118326
Total Pipe Length: 253	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/20/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: CARMENITA RD	Flow Control: N Not Controlled	Start MH: 2079-0233
City: SFS	Year Renewed	End MH: 2079-0247
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 336.04 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 253
Drain. Area: 0233/2079-0247/2079	Lining Method: Category:

Remark::	MH#S REVERSED ON DATABASE
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QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4432	2200	86	4	90	1.25	2	1.27



National Plant Services
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Inspection report

Date: 20100225	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B.FUGATE	section number: 414	PSR: 117597
Total Pipe Length: 225	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 02/25/2010	Pre-Cleaned: J Jetting	Map Grid #: 2081

Street: 0	Flow Control: N Not Controlled	Start MH: 2081-0131
City: SFS	Year Renewed	End MH: 2081-0132
Location Code: G Parking Lot	Tape/Media #:	pipe length: 215.64 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 8/8
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 225
Drain. Area:	0131/2081-0132/2081	Lining Method:	

Remark:: **MH#S REVERSED ON DATABASE**

position	observation	grade
0.00	Downstream Manhole, Survey Begins 2081-0131	
0.00	Water Level, 5 % of cross sectional area	M 2
0.00	Water Mark, 5 % of cross sectional area	M 2
40.04	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
130.02	Fracture Circumferential, from 12 to 02 o'clock, within 8 inch: YES	S 2
151.31	Fracture Circumferential, from 10 to 03 o'clock, within 8 inch: YES	S 2
194.84	Fracture Multiple, from 12 to 05 o'clock, within 8 inch: YES	S 4
198.44	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: NO	S 4
215.64	Upstream Manhole, Survey Ends 2081-0132	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4222	2200	12	4	16	3	2	2.67



National Plant Services
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Inspection report

Date: 20100412	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1449	PSR: 118430
Total Pipe Length: 247	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: CARMENITA RD	Flow Control: N Not Controlled	Start MH: 2079-0214
City: SFS	Year Renewed	End MH: 2079-0252
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 191.15 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 247
Drain. Area: 0214/2079-0252/2079	Lining Method: Category:

Remark::	MH#S REVERSED ON DATABASE
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1:450	position	observation	grade
	0.00	Upstream Manhole, Survey Begins 2079-0252	0 FT //
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	3.60	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	S 3
	3.60	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES	S 3
	4.47	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	5.93	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES, start	S 3
	63.85	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	109.81	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	110.78	Fracture Longitudinal, at 03 o'clock, within 8 inch: YES	S 3
	129.15	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	186.68	Fracture Multiple, from 01 to 01 o'clock, within 8 inch: YES	S 4
	186.97	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES, end	S 3
	191.15	Downstream Manhole, Survey Ends 2079-0214	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413G	2200	121	4	125	3.03	2	2.98



National Plant Services
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Inspection report

Date: 20100408	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1426	PSR: 118436
Total Pipe Length: 201	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/08/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: TELEGRAPH RD	Flow Control: N Not Controlled	Start MH: 2079-0218
City: SFS	Year Renewed	End MH: 2079-0221
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 276.38 ft
Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8	
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 201	
Drain. Area: 0218/2079-0221/2079	Lining Method:	
Remark:: MH#S REVERSED ON DATABASE	Category:	

1:625	position	observation	grade
	0.00	Upstream Manhole, Survey Begins 2079-0221	0 FT //
	0.00	Water Level, 5 % of cross sectional area	0.68 FT // 00:00:32
	0.00	Water Mark, 5 % of cross sectional area	0.68 FT // 00:00:32
	0.68	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES	3.69 FT // 00:00:57
	3.69	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES	6.03 FT // 00:01:12
	6.03	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES, start	S1
	11.18	Tap Break-In Active, at 02 o'clock, 6", within 8 inch: YES	
	22.74	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	72.98	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	123.32	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	173.56	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	223.70	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	255.97	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	268.21	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES, end	F1
	274.43	Fracture Multiple, from 09 to 04 o'clock, within 8 inch: YES	
	276.38	Downstream Manhole, Survey Ends 2079-0218	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413J	2200	166	4	170	3.02	2	2.98



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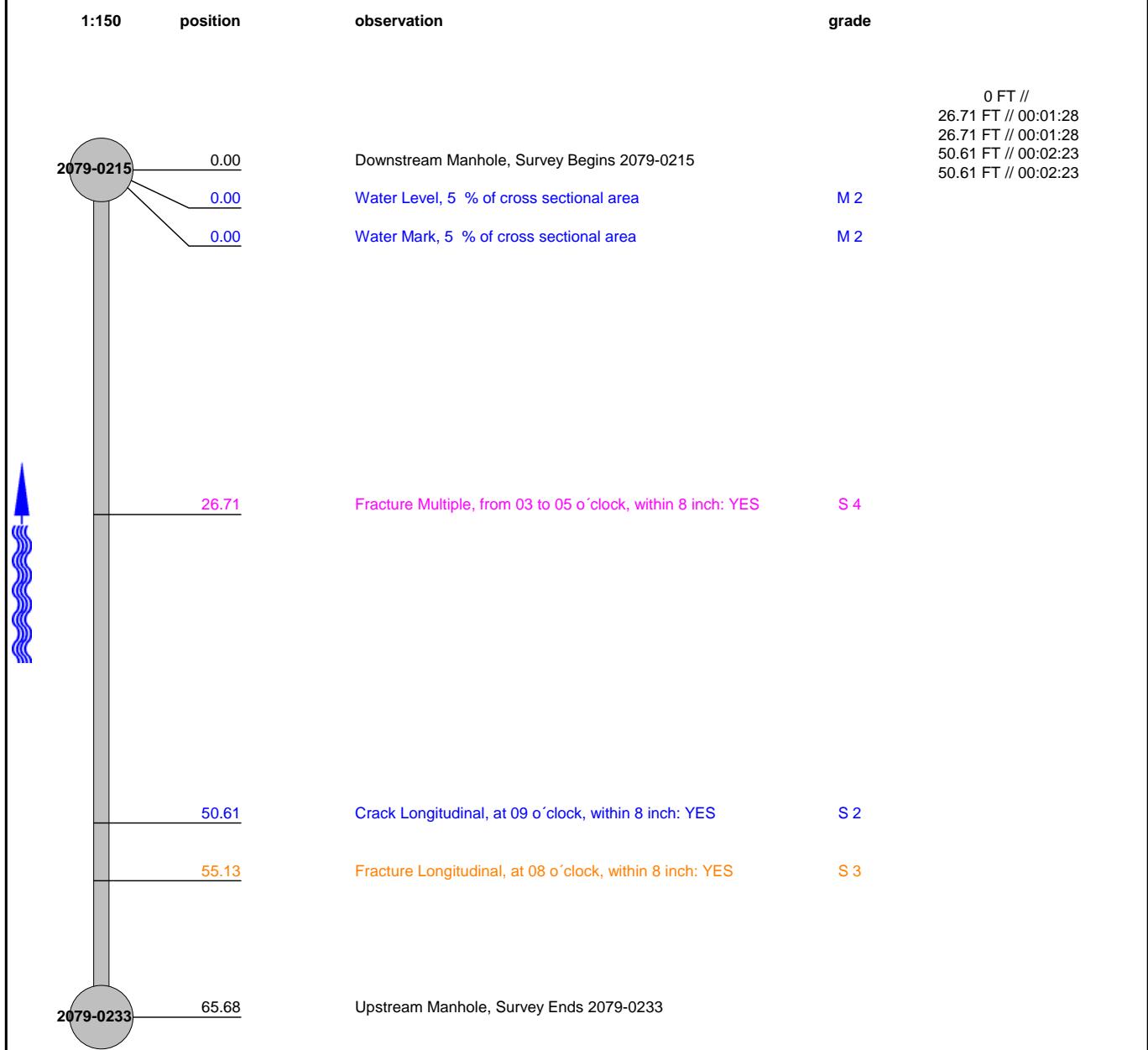
Inspection report

Date: 20100415	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 1550	PSR: 118432
Total Pipe Length: 76	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/15/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street:	CARMENITA RD	Flow Control:	N Not Controlled	Start MH:	2079-0215
City:	SFS	Year Renewed		End MH:	2079-0233
Location Code:	A Main Highway - Urban	Tape/Media #:		pipe length:	65.68 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 8/8
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 76
Drain. Area:	0215/2079-0233/2079	Lining Method:	

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	9	4	13	3	2	2.6



National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

Inspection report

Date: 20100308	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 633	PSR: 118413
Total Pipe Length: 277	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/08/2010	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 2079

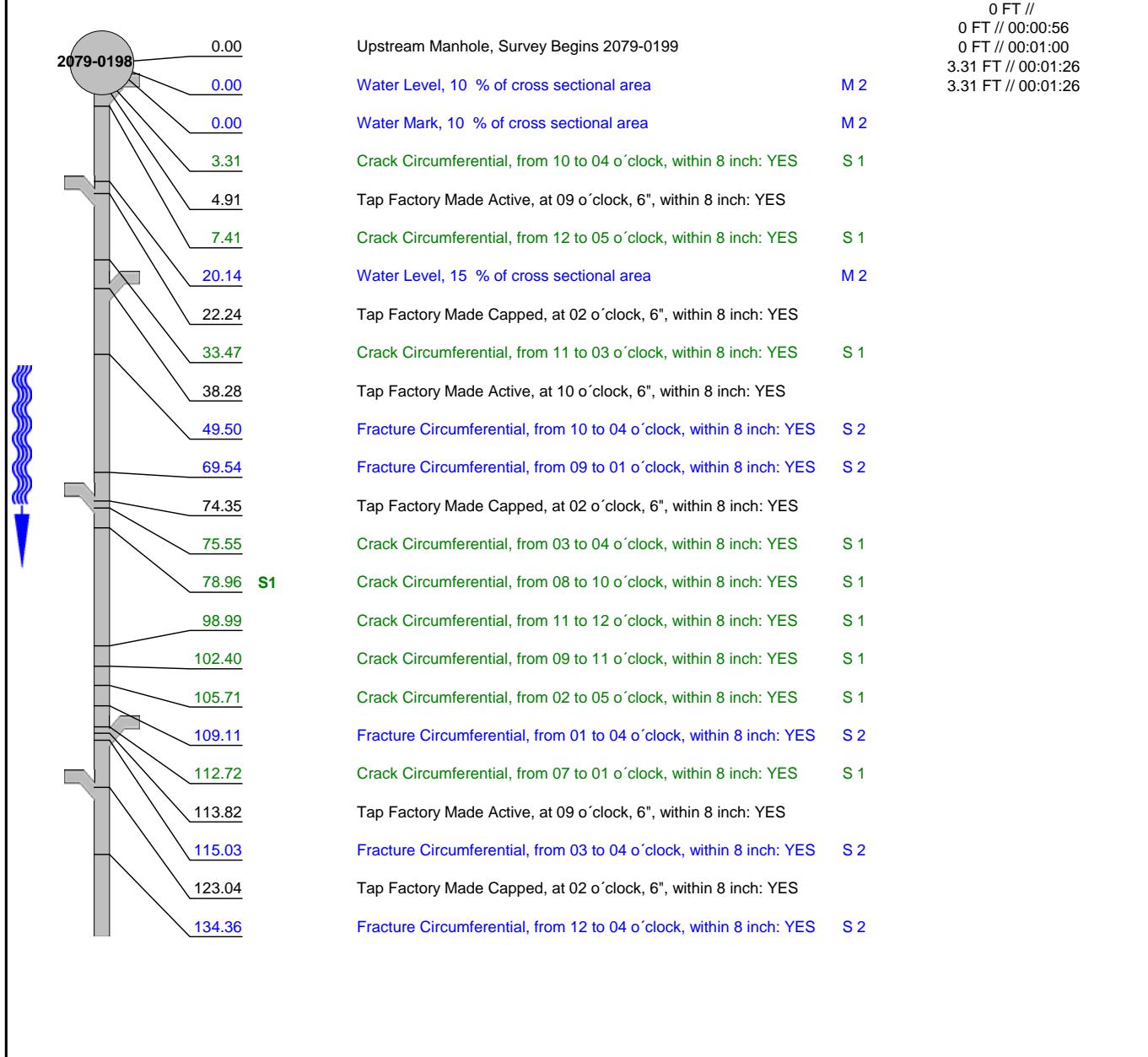
Street: LAUREL AV	Flow Control: N Not Controlled	Start MH: 2079-0198
City: SFS	Year Renewed	End MH: 2079-0199
Location Code: C Light Highway	Tape/Media #:	pipe length: 333.66 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 277
Drain. Area: 0198/2079-0199/2079	Lining Method: Category:

Remark:: NONE

1:330	position	observation	grade
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MH NUMBERS ARE REVERSED IN DATA BASE.

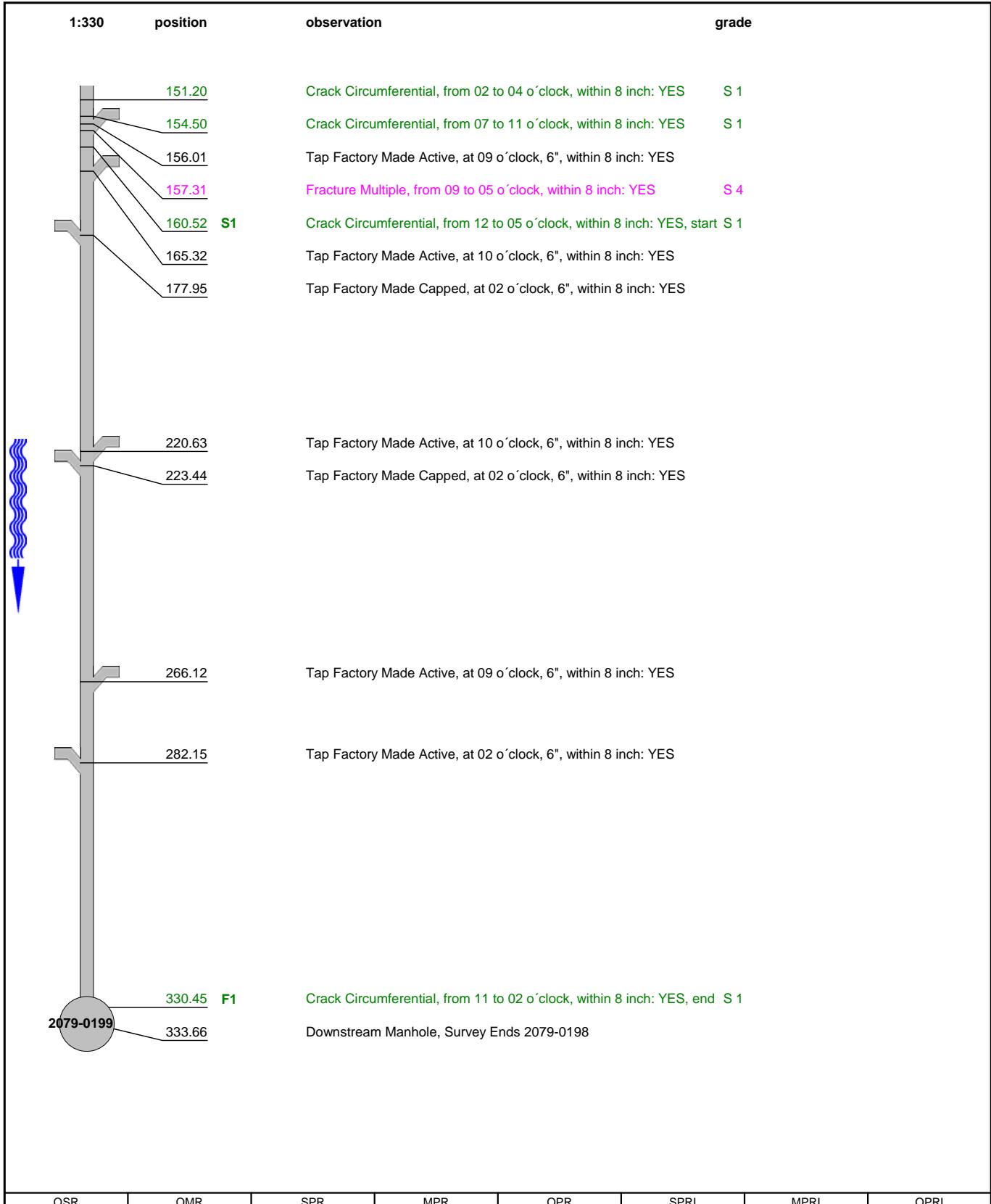




National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

Inspection report

Date: 20100308	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 633	PSR: 118413
Total Pipe Length: 277	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/08/2010	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 2079





National Plant Services
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LONG BEACH 90813 CA
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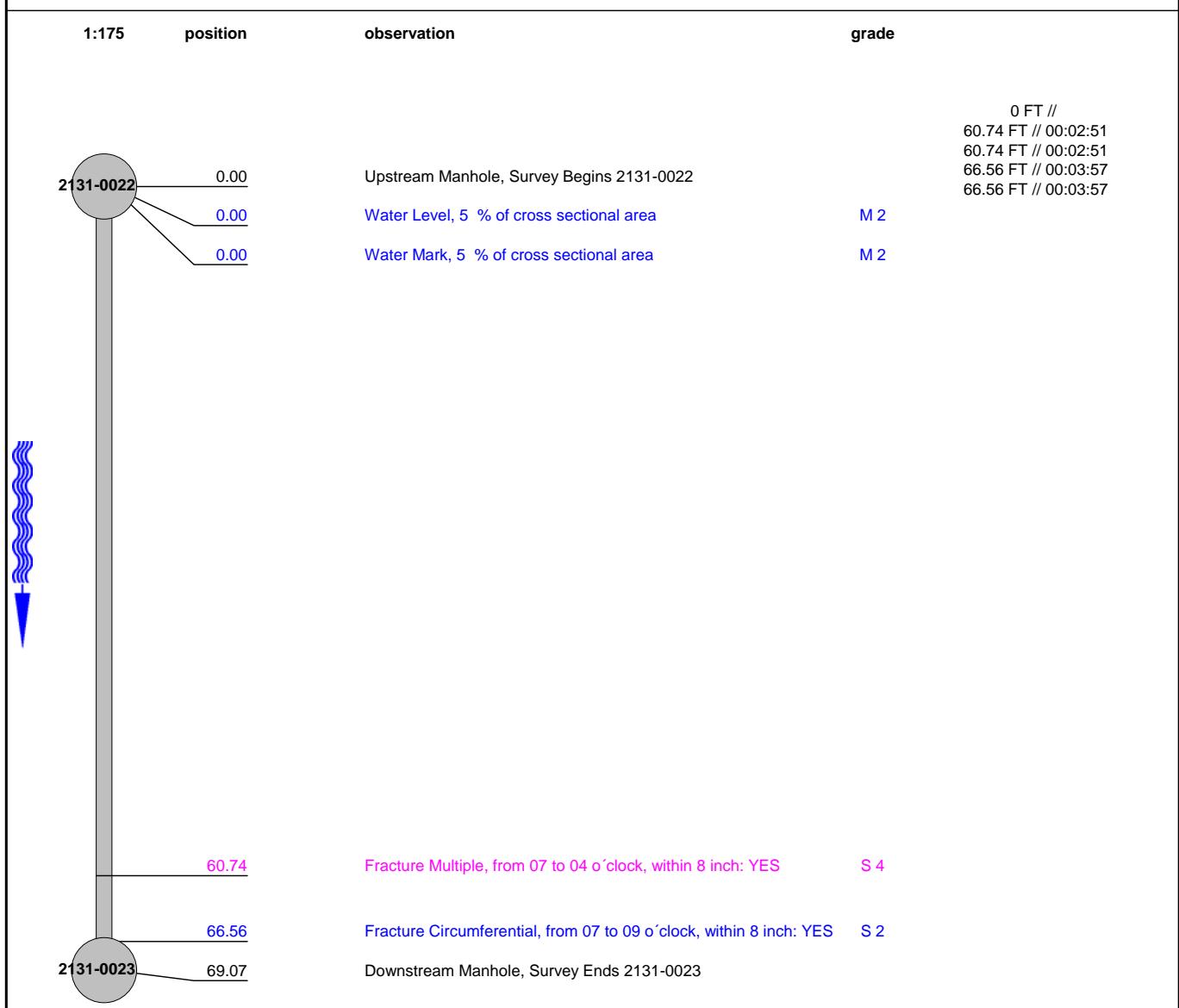
Inspection report

Date: 20100215	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B.FUGATE	section number: 163	PSR: 113520
Total Pipe Length: 72	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 02/15/2010	Pre-Cleaned: J Jetting	Map Grid #: 2131

Street:	Flow Control:	N Not Controlled	Start MH:	2131-0022
City: SFS	Year Renewed		End MH:	2131-0023
Location Code: D Easement/Right of Way	Tape/Media #:		pipe length:	69.07 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 10/10
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 72
Drain. Area:	0022/2131-0023/2131	Lining Method:	

Remark:: **NONE**



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2200	6	4	10	3	2	2.5



National Plant Services
1461 HARBOR AVENUE
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Inspection report

Date: 20100416	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 1527	PSR: 117843
Total Pipe Length: 348	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/16/2010	Pre-Cleaned: J Jetting	Map Grid #: 2080

Street: 0	Flow Control: N Not Controlled	Start MH: 2080-0168
City: SFS	Year Renewed	End MH: 2080-0169
Location Code: G Parking Lot	Tape/Media #:	pipe length: 349.79 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 348
Drain. Area: 0168/2080-0169/2080	Lining Method: Category:

Remark::

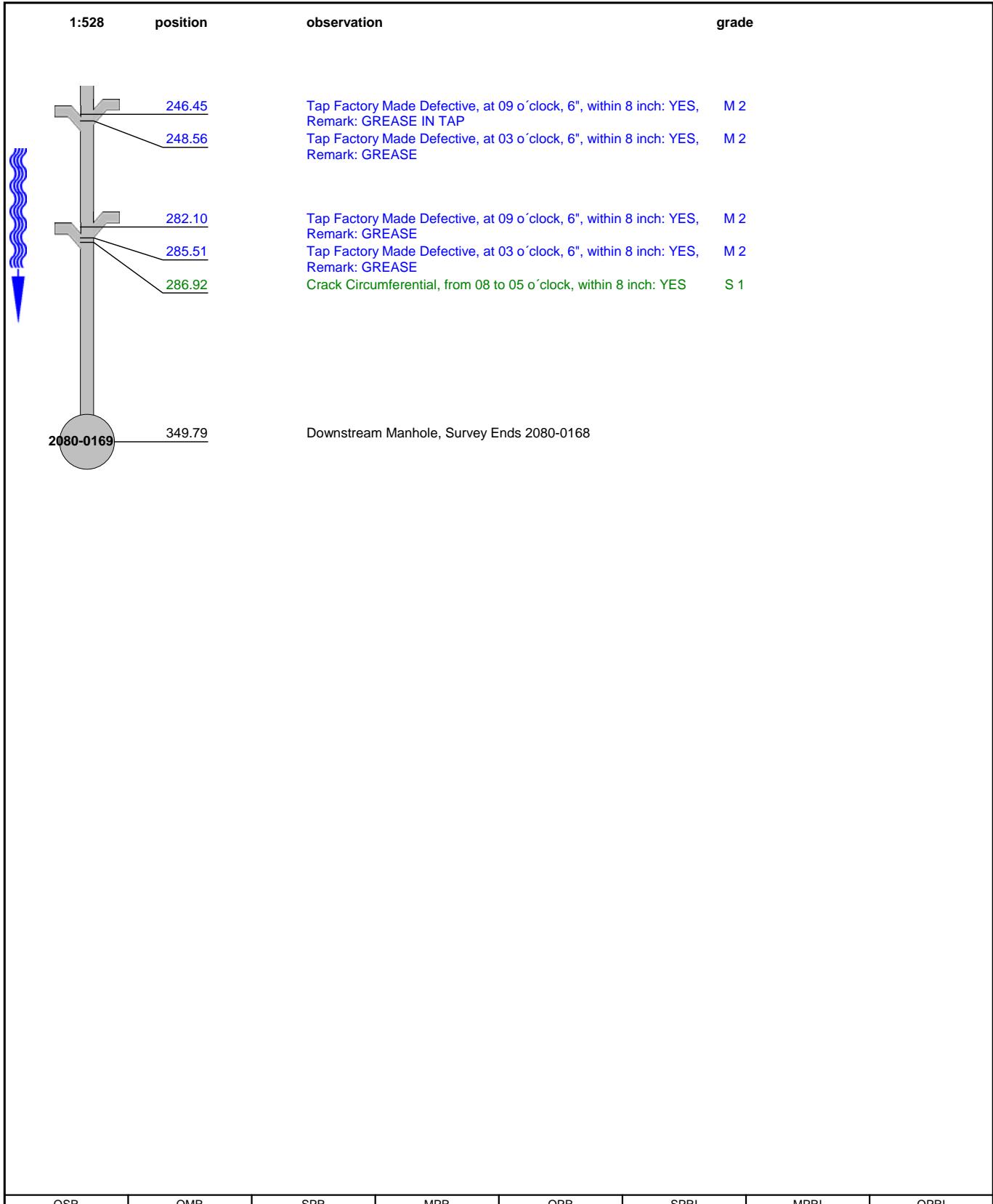
1:528	position	observation	grade
		Upstream Manhole, Survey Begins 2080-0169	0 FT //
	0.00	Water Level, 5 % of cross sectional area	30.43 FT // 00:01:26
	0.00	Water Mark, 5 % of cross sectional area	33.14 FT // 00:01:39
	30.43	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	63.77 FT // 00:03:00
	33.14	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	63.97 FT // 00:03:07
	63.77	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	63.97	Joint Offset Medium	M 2
	66.68	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	67.59	Fracture Circumferential, from 10 to 06 o'clock, within 8 inch: YES	S 2
	84.36	Tap Factory Made Active, at 11 o'clock, 6", within 8 inch: YES	
	99.62	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	102.23	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	120.21	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	122.62	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	151.34	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	153.85	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	154.26	Joint Offset Medium	S 1
	156.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	182.17	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: GREASE IN TAP	M 2
	185.09	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	186.49	Fracture Multiple, from 02 to 08 o'clock, within 8 inch: YES	S 4
	213.71	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	216.12	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: GREASE IN TAP	M 2



National Plant Services
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LONG BEACH 90813 CA
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Inspection report

Date: 20100416	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 1527	PSR: 117843
Total Pipe Length: 348	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/16/2010	Pre-Cleaned: J Jetting	Map Grid #: 2080



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2800	9	16	25	1.8	2	1.92



National Plant Services
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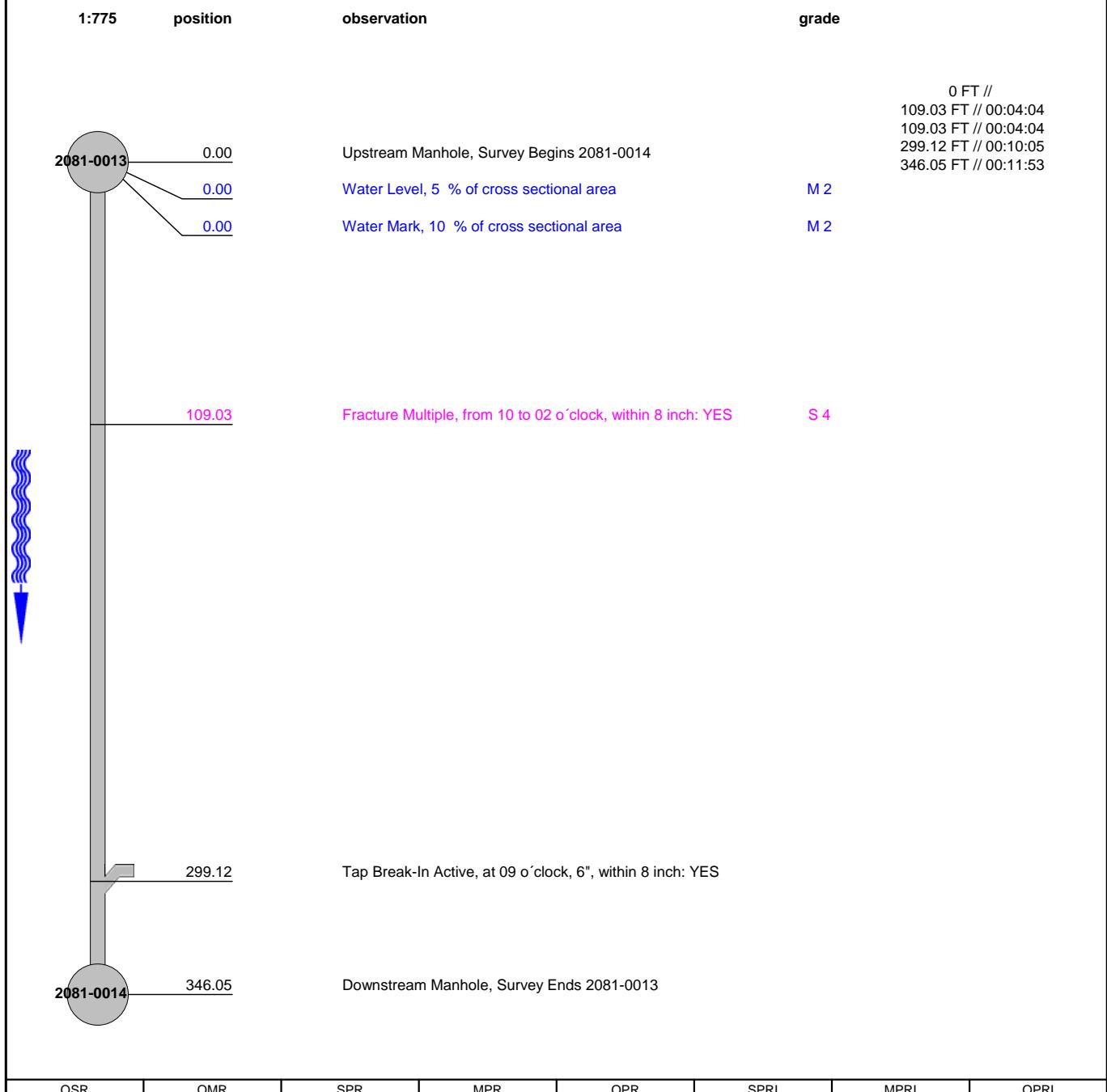
Inspection report

Date: 20100302	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B.FUGATE	section number: 498	PSR: 117713
Total Pipe Length: 350	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/02/2010	Pre-Cleaned: J Jetting	Map Grid #: 2081

Street: FIRESTONE BV	Flow Control: N Not Controlled	Start MH: 2081-0013
City: SFS	Year Renewed	End MH: 2081-0014
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 346.05 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 10/10
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 350
Drain. Area: 0013/2081-0014/2081	Lining Method: Category:

Remark:: MH#S REVERSED ON DATABASE



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



National Plant Services
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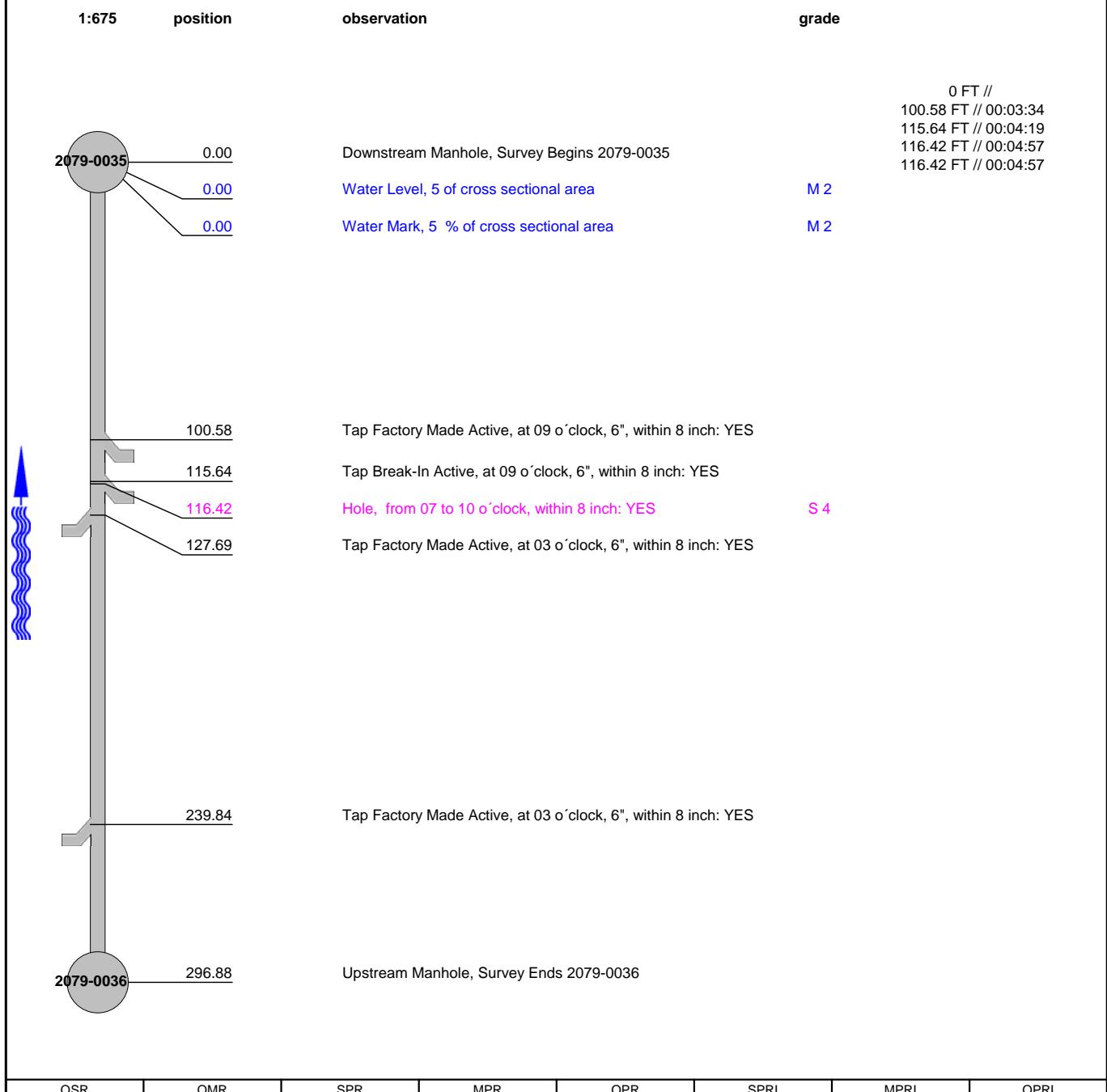
Inspection report

Date: 2010322	P.O.#: YOTV0910B	Weather: 1 Dry	Surveyed By: B.FUGATE	section number: 937	PSR: 118600
Total Pipe Length: 300	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/22/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: 0	Flow Control: N Not Controlled	Start MH: 2079-0035
City: SFS	Year Renewed	End MH: 2079-0036
Location Code: G Parking Lot	Tape/Media #:	pipe length: 296.88 ft

Reason for inspection: F Routine Asseessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 300
Drain. Area:	Lining Method: Category:

Remark:: MH#S REVERSED ON DATABASE



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



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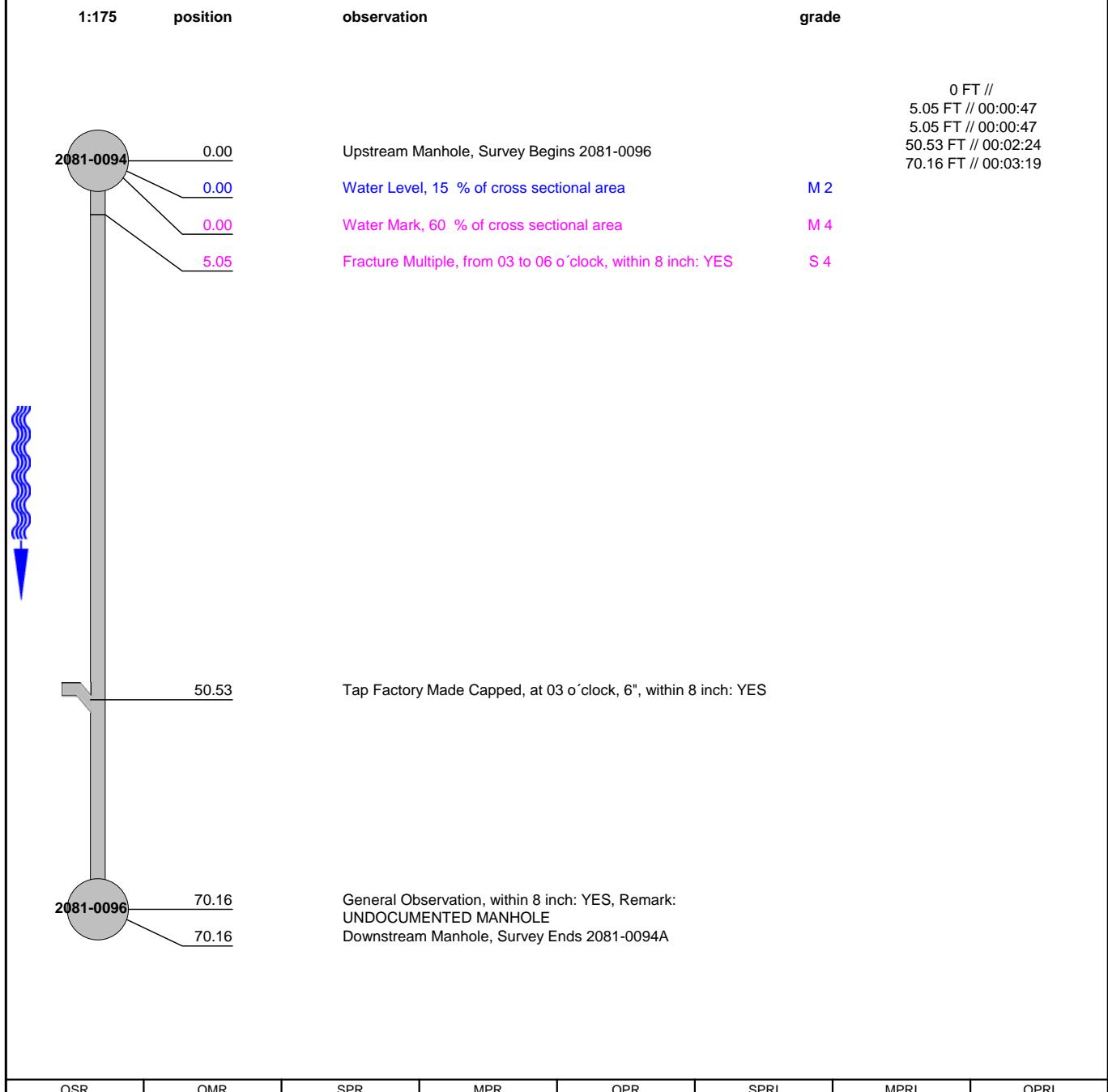
Inspection report

Date: 20100330	P.O.#: YOTV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1181	PSR: 117680
Total Pipe Length: 222	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 03/30/2010	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 2081

Street:	MARQUARDT AV	Flow Control:	N Not Controlled	Start MH:	2081-0094
City:	SFS	Year Renewed		End MH:	2081-0096
Location Code:	C Light Highway	Tape/Media #:		pipe length:	70.16 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 15/15
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 222
Drain. Area:	0094/2081-0096/2081	Lining Method:	
		Category:	

Remark:: **UNDOCUMENTED MANHOLE**



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4121	4	6	10	4	3	3.33



National Plant Services
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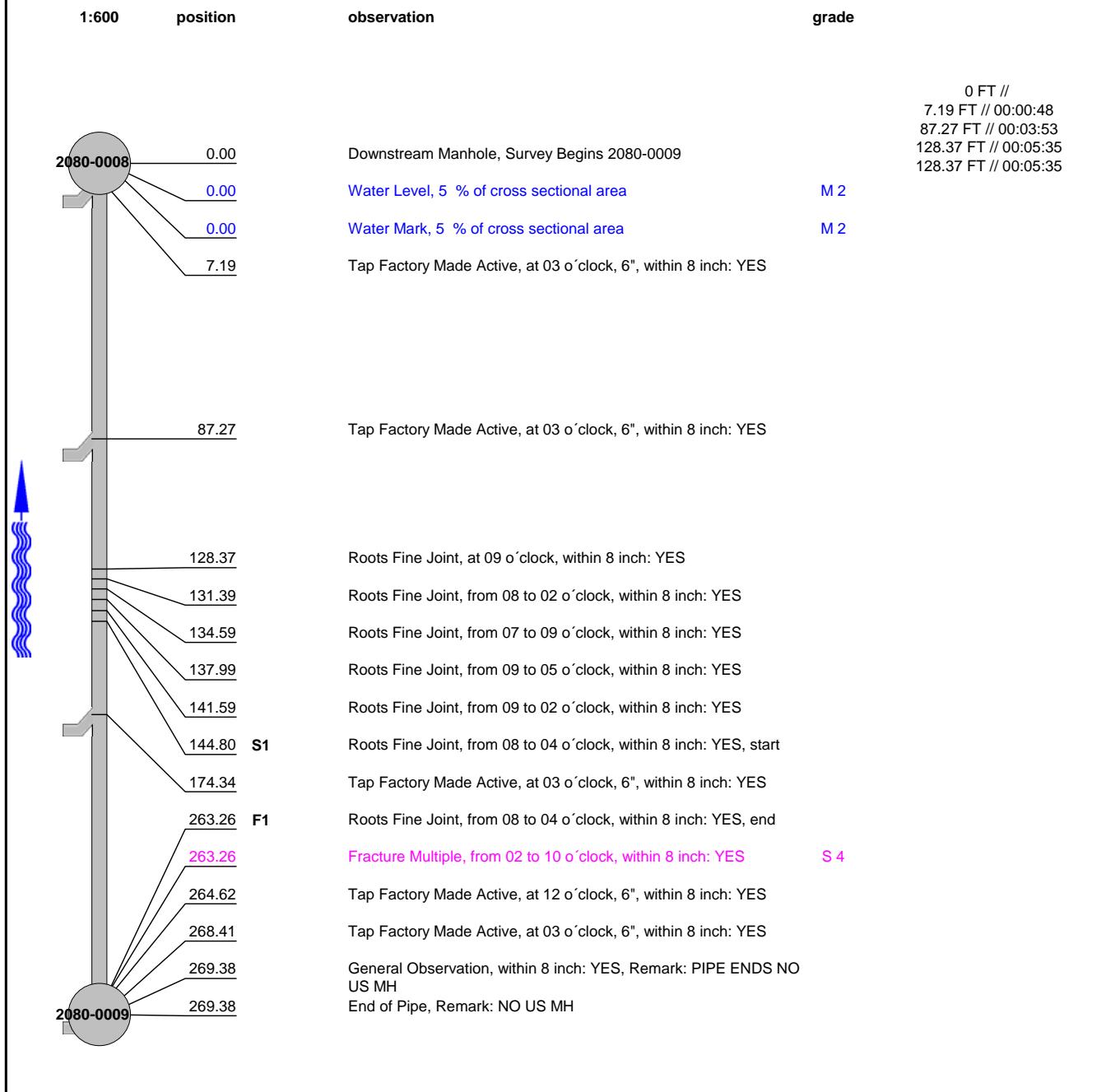
Inspection report

Date: 20100405	P.O.#: YOTV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1326	PSR: 118053
Total Pipe Length: 287	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/05/2010	Pre-Cleaned: J Jetting	Map Grid #: 2080

Street:	IMPERIAL HWY	Flow Control:	N Not Controlled	Start MH:	2080-0008
City:	SFS	Year Renewed		End MH:	2080-0009
Location Code:	A Main Highway - Urban	Tape/Media #:		pipe length:	269.38 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 8/8
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 287
Drain. Area:	0008/2080-0009/2080	Lining Method:	

Remark:: **PIPE ENDS NO US MH**



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



National Plant Services
1461 HARBOR AVENUE
LONG BEACH 90813 CA
Tel: (562) 436-7600, Fax:

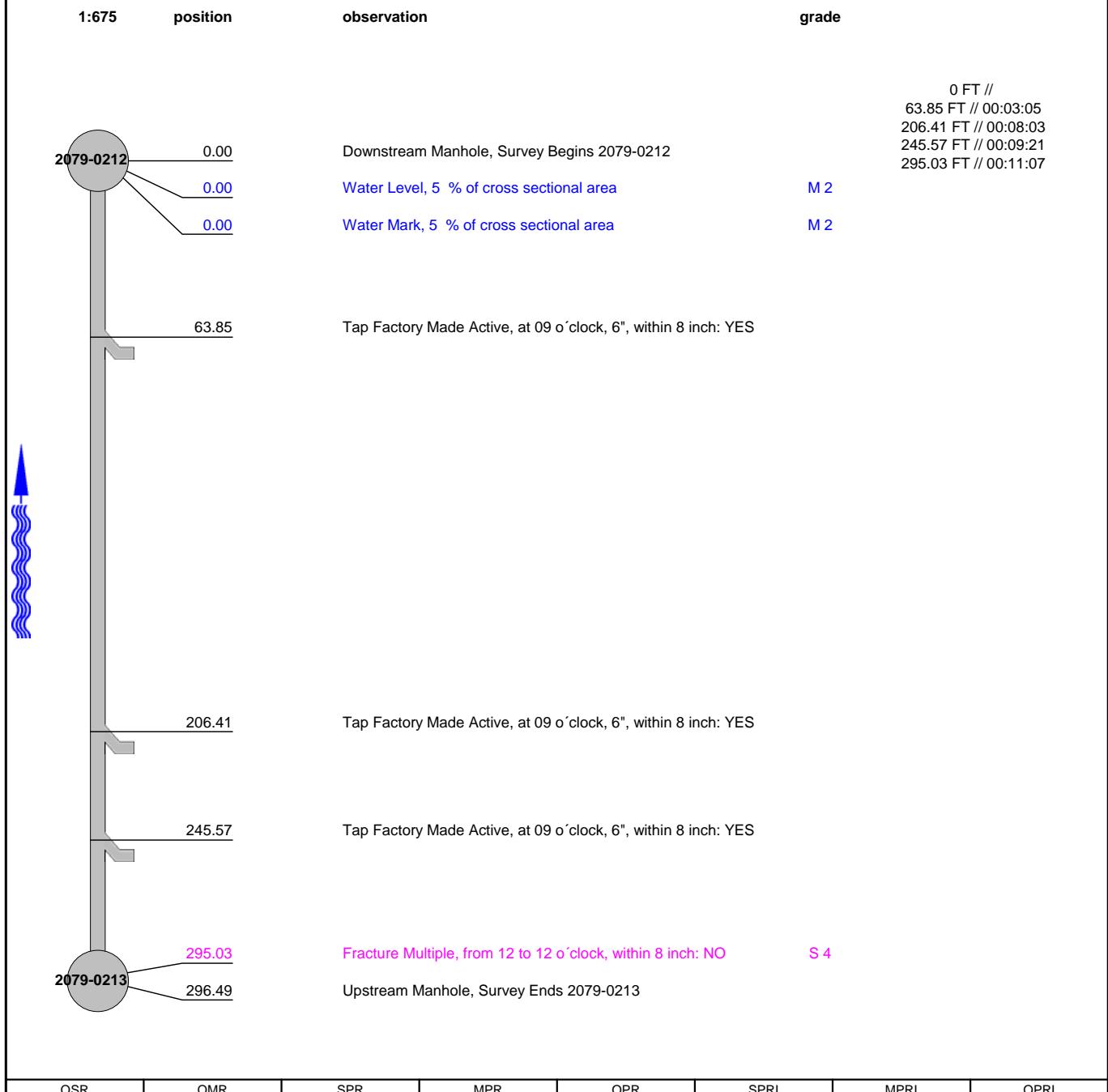
Inspection report

Date: 20100410	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 1447	PSR: 118428
Total Pipe Length: 300	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 2079

Street: LAUREL AV	Flow Control: N Not Controlled	Start MH: 2079-0212
City: SFS	Year Renewed	End MH: 2079-0213
Location Code: C Light Highway	Tape/Media #:	pipe length: 296.49 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 300
Drain. Area: 0212/2079-0213/2079	Lining Method: Category:

Remark:: AGAINST FLOW



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



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Inspection report

Date: 20100415	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: B. FUGATE	section number: 1545	PSR: 118576
Total Pipe Length: 78	Survey Customer: LACDPW	System Owner: SFS	Clean Date: 04/15/2010	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 2079

Street:	FLORENCE AV	Flow Control:	N Not Controlled	Start MH:	2079-0012
City:	SFS	Year Renewed		End MH:	2079-TRNK
Location Code:	A Main Highway - Urban	Tape/Media #:		pipe length:	51.52 ft

Reason for inspection:	F Routine Assessment	Dia/Height:	C Circular 8/8
Use of Sewer:	SS Sanitary	Material:	VCP Pipe Length: 78
Drain. Area:	0012/2079-TRNK/2079	Lining Method:	

Remark::

position	observation	grade
2079-0012	Upstream Manhole, Survey Begins 2079-0012	0 FT // 00:00:24
	Water Level, 5 % of cross sectional area	5.02 FT // 00:00:49
	Water Mark, 25 % of cross sectional area	5.02 FT // 00:00:49
	Shape or Size Change, 15", 15"	51.52 FT // 00:01:57
	Fracture Multiple, from 03 to 10 o'clock, within 8 inch: YES	M 2
		M 2
		S 4
2079-TRNK	Downstream Manhole, Survey Ends 2079-TRNK	0 FT // 00:00:24

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67